



# Smart

## Industry Enabler

### Industrial PCs Product Guide



Stainless Steel PPC ▶

Industrial Panel PC ▶

HMI Controller ▶

Box PC ▶

Machine Vision System ▶

Industrial Display Monitor ▶



# APLEX ADVANTAGE

## 1. A Full Spectrum of IPC Products

The system products consist of stainless steel panel PC, industrial Panel PCs, HMI, embedded BOX PCs, and industrial Displays. Meanwhile, APLEX is also focusing on boards designs and manufacturing in China. By providing a complete industrial products, APLEX is dedicated to satisfying customers' needs.

## 2. A Broad of range Applications

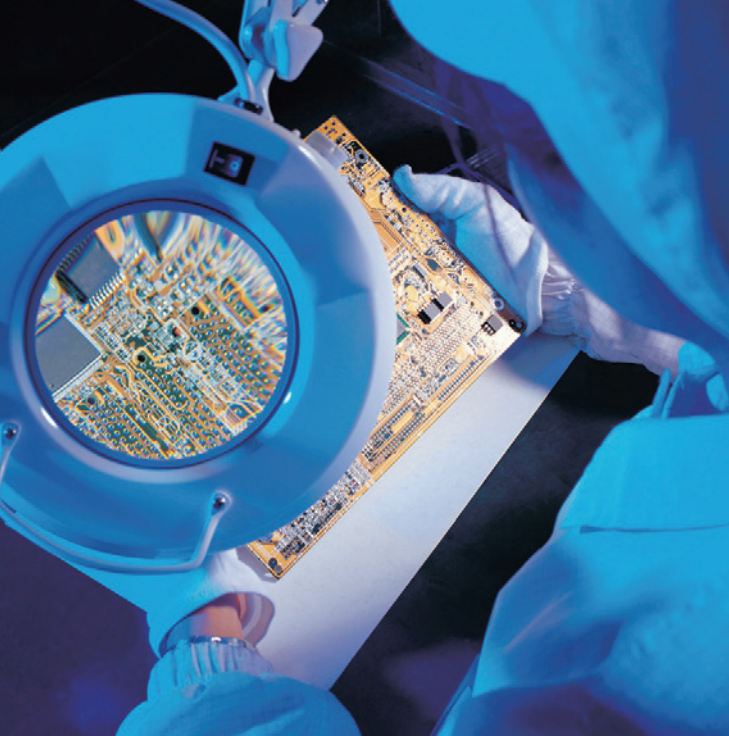
Applications cover factory automation, transportation, retail, hospitality, warehousing, medical, and vertical applications include hazardous, marine, fleet management and railway and so on.

## 3. Elite Staff and Sophisticated Equipment

With more than a decade of experiencing in IPC industry, APLEX R&D members are committee to designing and making innovation products. APLEX set up R&D lab in order to fulfill hardware engineers to examine products and ensure their functionalities.

## 4. Time to Market

APLEX has implemented NPDP (New Product Development Process) system since 2012 to keep projects going smoothly, and it is proven working well. A complete and efficient project management system optimizes project input and production output; as a result of making customers always satisfied.



APLEX specializes in providing the RoHS compliant products, and keeps close cooperation with the suppliers to guarantee the products accord with the European legislation on environmental issues. The RoHS compliant products on websites or datasheets will be identified by the RoHS symbol. Therefore this process will be done in full coordination with our partners and updated accordingly.

# QUALITY

APLEX won ISO 9001 quality assurance in January, and 2007 and we actively support environmental protection by working with suppliers and customers. To implement effectively the quality system, a series of strict tests will be made throughout the design process, such as EMI test, vibration test and temperature test.



## Environmental Policy

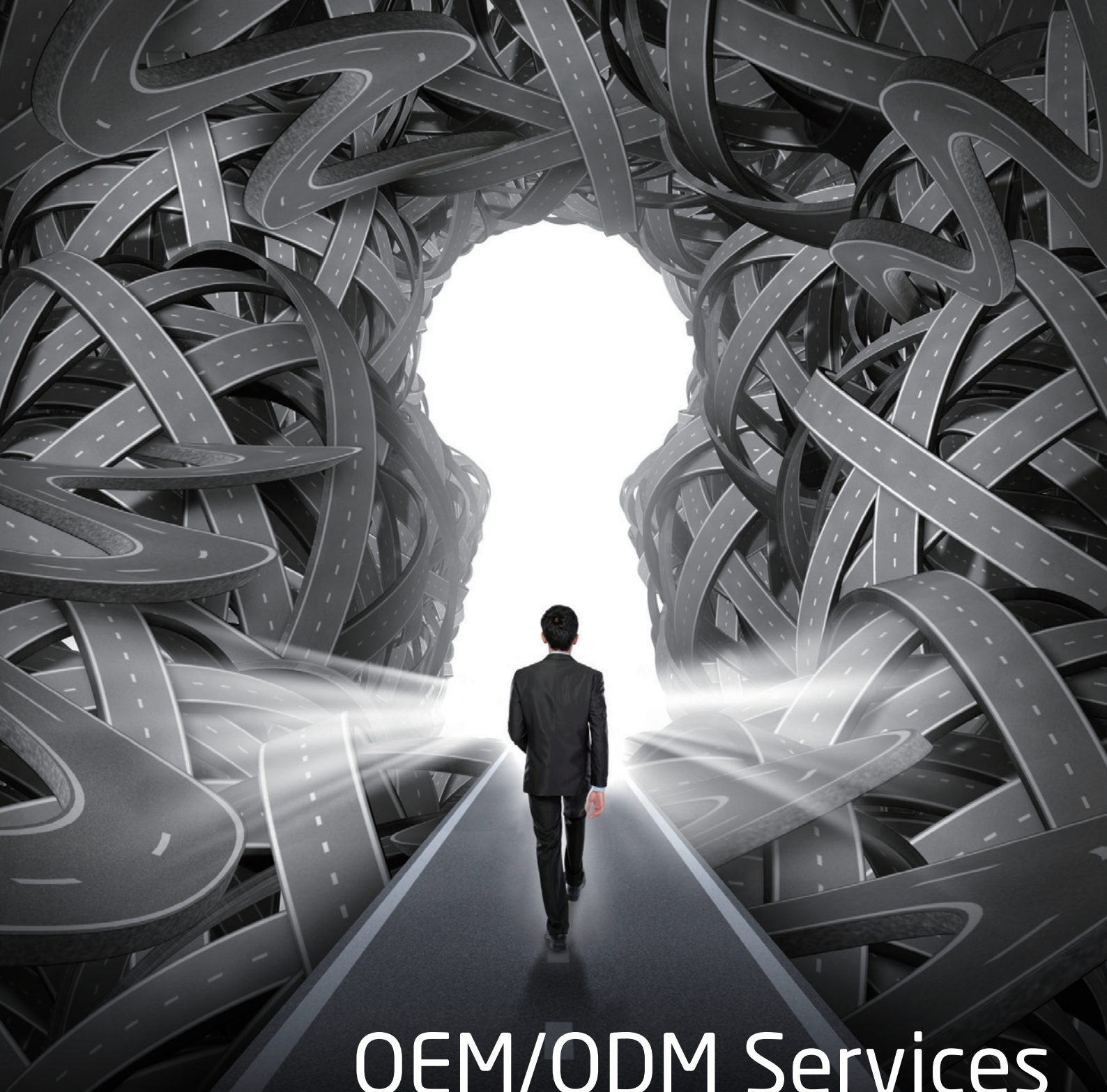
- > Product design and manufacture procedure are complying with regulations.
- > Products "Go Green" through dedicated research and development.
- > Product design and manufacture are carefully controlled to prevent environmental pollution.
- > APLEX dedicates to elevating environmental consciousness with not only full involvement of the whole company but the continuous improvement in creating eco-friendly products.

## Quality Policy

- > Customer Satisfaction
- > Innovation & Creation
- > Pursue Excellence
- > Sustainable Business







# OEM/ODM Services

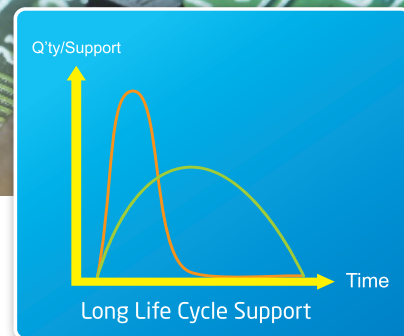
**Apart** from standard products, APLEX offers OEM/ODM services to meet customer's needs in different industries and applications. We provide tailored made products, ranging from hardware architectures including CPU Sku, LCD sizes, touch Screen, to software packages such as BIOS, firmware and drivers. Either "small quantity and great variety" or "high quality but cost effective " products, APLEX is able to fulfill and deliver the best solutions to our OEM/ODM customers.

Tailored





# Why Embedded?

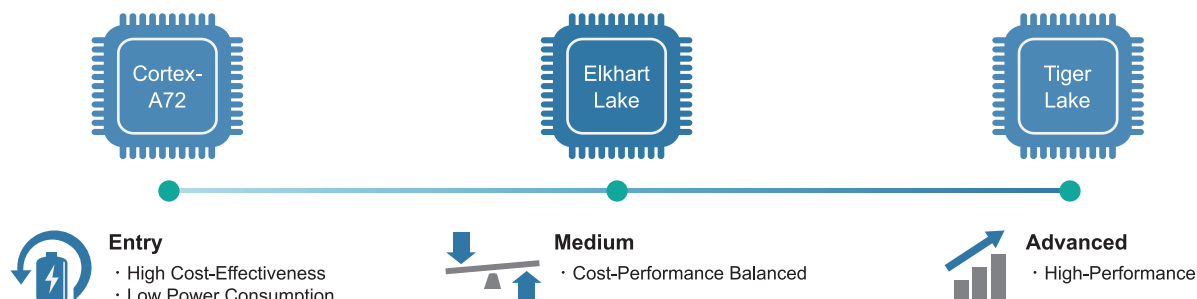


**Embedded Processor Means Long Product Life Time.**

**Embedded Processor Provides Low Power Consumption and High Reliability.**

Both embedded x86 based processors and Advanced RISC Machine(ARM) based platform are designed with power- and cost-sensitive applications. Therefore, APLEX's new generation HMI product of ARM Cortex-A72 processors offers comprehensive integration, software and hardware enablement, and one of the broadest performance ranges for ARM solutions. Moreover, ARM Cortex series processor enables advanced 3D graphics acceleration, flexible communication interfaces and robust display options. Providing our customers with various choices to meet their needs and application.

From X86 based to ARM based, APLEX offers many different solutions so that our customer may simply select one of them to adapt to their industrial and vertical applications such as factory automation, mobile and rugged device, logistic, security, transportation, cost-effective equipment, heavy-duty industry, etc.



APLEX manufactures Full Spectrum of Embedded industrial board showing equivalent performance on efficacy and costs that deliver the excellent balance solution for our embedded system.

## Completed Embedded OS Support



| Operation System | Windows 10                       | Windows 11     | Linux     | Android          |
|------------------|----------------------------------|----------------|-----------|------------------|
| OS Sku           | Windows 10 IoT<br>Windows 10 Pro | Windows 11 IoT | Linux 5.X | Android 10 above |



# APLEX Provides Various Touch Screen Solution in diverse product lines and sizes.

In order to fit customers' needs and make our products friendlier and more convenient when operating, APLEX supports touch screen options for not only panel PC products but also HMI and Display product lines. There are two main types of touch panel technologies in industrial PC application: resistive touch window type and projected capacitive touch screen type. Especially, APLEX develops a new technology to support flat-bezel on resistive touch instead of traditional resistive touch type.

| Type          | Resistive                   |                             | Capacitive                            |                                       |
|---------------|-----------------------------|-----------------------------|---------------------------------------|---------------------------------------|
|               | 4-Wire                      | 5-Wire                      | Surface                               | Projected                             |
| Operate       | Finger stylus/<br>Touch pen | Finger stylus/<br>Touch pen | Finger touch/<br>Capacitive Touch pen | Finger touch/<br>Capacitive Touch pen |
| Glove         | Yes                         | Yes                         | No                                    | No(Only medical glove)                |
| Multi-touch   | No                          | No                          | No                                    | Yes                                   |
| Hardness      | 3H                          | 3H                          | 7H                                    | 7H                                    |
| Flat Bezel    | Option                      | Option                      | Yes                                   | Yes                                   |
| Transmission* | over 80%                    | over 80%                    | over 90%                              | over 90%                              |
| Lifetime      | General                     | Good                        | Good                                  | Good                                  |

## Resistive Touch Window

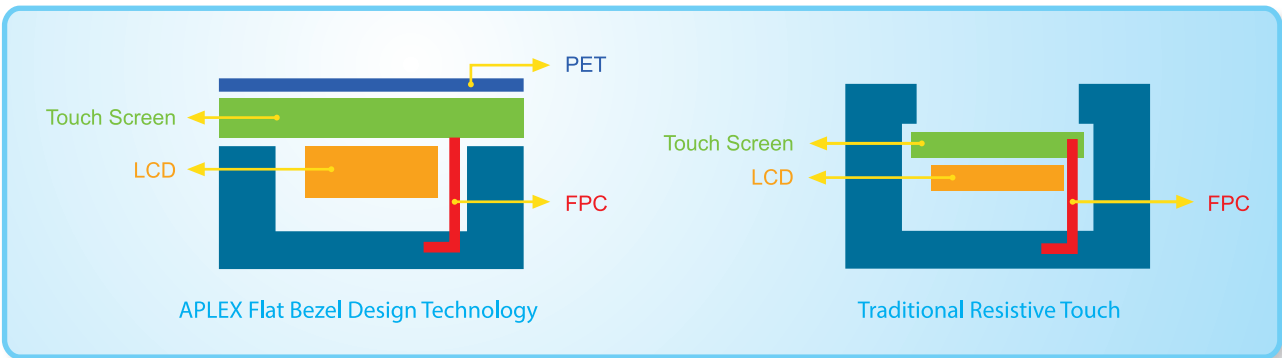
### How It Works

A uniform voltage gradient is applied to one sheet. Whenever the second sheet touches the other one, the second sheet measures the voltage as a distance along the first sheet. This combination of voltage and distance provides X coordinate.

After the X coordinate is located, the process repeats itself by applying uniform voltage gradient to the second sheet in order to find the Y coordinate. This entire process happens in a matter of milliseconds, oblivious to human eye.

## APLEX Flat Bezel Panel Design Technology

APLEX Flat Bezel Panel Design Technology features: no gap at front panel, panel display area 100% usable, easy to clean the front panel; no gap, dirt prevention, water accumulation. Moreover, Flat Bezel Design has a trendy housing design look.



## Capacitive Touch

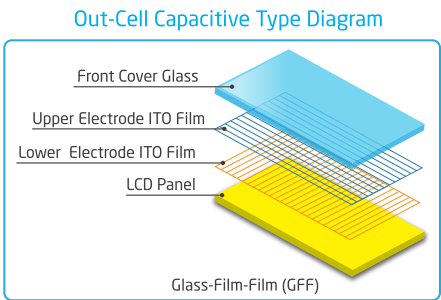
### How it works

A capacitive touchscreen panel consists of an insulator such as glass, coated with a transparent conductor such as indium tin oxide (ITO). As the human body is also an electrical conductor, touching the surface of the screen results in a distortion of the screen's electrostatic field, measurable as a change in capacitance. Different technologies may be used to determine the location of the touch. The location is then sent to the controller for processing.

Unlike a resistive touchscreen, one can't use a capacitive touchscreen through most types of electrically insulating material, such as gloves. This disadvantage especially affects usability in consumer electronics, like touch tablet PCs and capacitive smartphones in cold weather. More and more, it can be overcome with a special capacitive stylus, or a special-application glove with an embroidered patch of conductive thread passing through it and contacting the user's fingertip.

The Projected Capacitive Touch (PCT) is a common solution in industrial devices because it provides advantages of high durability (long life), excellent optical performance, anti-scratch and unlimited multi-touch and meets industrial-grade users' requirements for reliability, compatibility, expansion options and long term supply.

APLEX offers an array of PCT products including panel PC, HMI and Display in order to appeal to those with less budget limits.







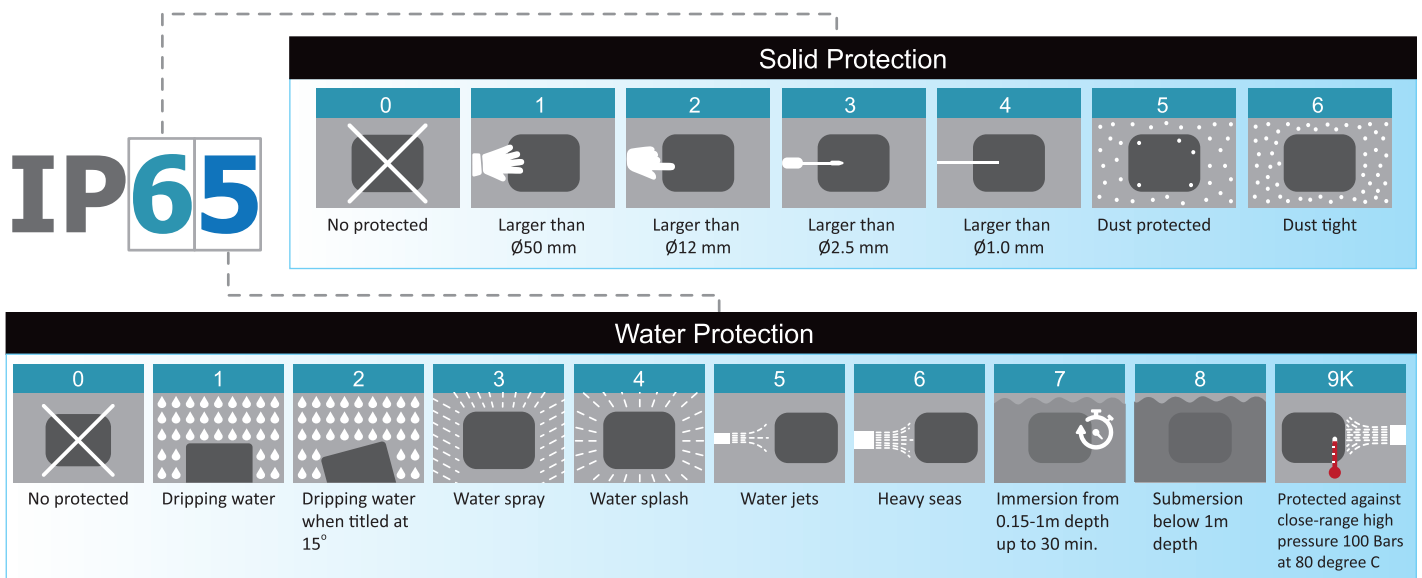
# Waterproof and Dustproof Solution

- ▶ Perfect Cleanability
- ▶ Semi-outdoor Application
- ▶ Easy Maintenance

**APLEX provides different IP ratings for all products that can go through many challenging circumstances.**

## What is IP Ratings?

The IP Rating (international Protection Rating/ Ingress Protection Rating). As defined in international standard IEC 60529. Published by the International Electrotechnical Commission (IEC), the equivalent European standard is EN 60529. The rating consists of the letters IP and followed by 2 digitals, rated on a scale from 0 to 9, this standard are used to classify the degrees of sealing effectiveness of APLEX electrical enclosures against the intrusion of solid objects, accidental contact dirt and water.



## IP Rating Testing

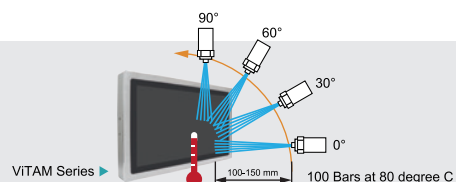
APLEX basically offers IP6X degree of solid particle protection, the most common rating in our catalog which means fully protecting the ingress of dust. According to different requirements, the IP66/IP67/IP69K rating are for our panel PC, HMI, and box PC.

In many industries, dust and dirt might be an issue, it is critical to ensure that dust cannot penetrate the casing of a product and cause it to fail. IP69K is the most protective, making products ideal for use in conditions where equipment must be carefully hygienic.

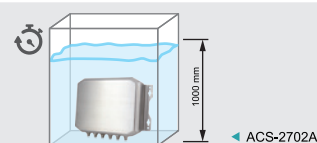
### The highest Protection Available



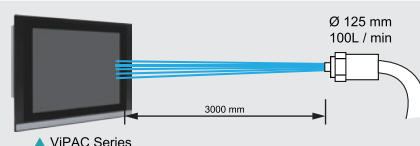
- Full-fledged protection from dust.
- Protected against close-range high pressure, high temperature spray downs.



- Full-fledged protection from dust.
- Protected against temporary immersion.

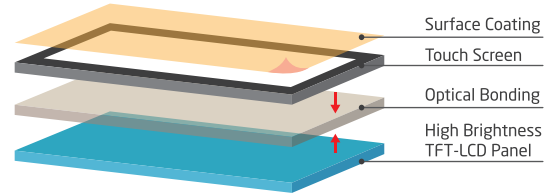


- Full-fledged protection from dust.
- Protected against multi-directional, high-pressure water jets.



# Sunlight Readable Solution

APLEX supports sunlight readable solution which provides you with clarity and brilliance under any high light condition.



## Now You Can See Me LED backlight LCD with high brightness up to 1000 nits

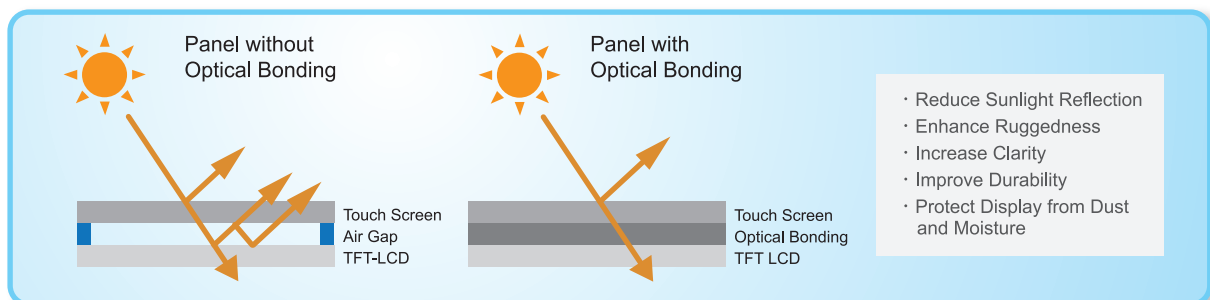
The sunlight readable solution is now more prevalent than ever before. This is because the normal screen contents become invisible under strong light condition, and could make operation error and lead to damage especially in industrial application. Therefore, APLEX offers reliable and solid rock quality displays for system integrators to use in applications where are high ambient light around. Adopted optional high brightness LCD up to 1000 nits and optical bonding that is a technology to improve display performance and increase the screen ruggedness for demanding semi-outdoor application.

- **Auto-Dimming**  
Automatically adjust the brightness based on the environment factors.
- **High Brightness**  
Luminance from 600 nits up to 1000 nits for semi-outdoor application.
- **LED Backlight LCD**  
Greatly save the power consumption and provide the longer LCD lifetime.



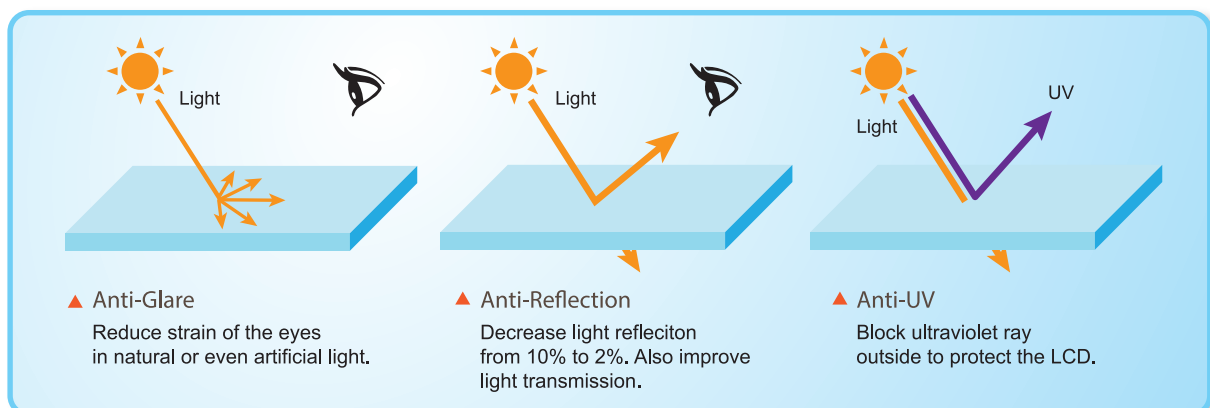
## Optical Bonding

With optical bonding, a protective cover glass is directly adhered to the LCD display with a thin, uniform layer of adhesive, effectively eliminating the air gap between the cover glass and display. It perfectly reduces sunlight reflection to Increases optical clarity, as well as enhances ruggedness, protect display from dust and moisture, and is thin and lightweight. Especially, It is ideal for applications in large temp. difference environment which can prevent the glass from fogging up and enhance the clarity.



## Surface Coating

APLEX provides many options for surface coating, including anti-glare, anti-reflection and anti-UV. It not only gives a user-friendly surface when users are operating our products but also protect the LCD, enhance the quality and durability of our display.





# Power-over-Ethernet Solution

APLEX PoE brings you the more convenient, flexible, low-maintenance and cost-efficient Industrial solution.



Less Cable, Easy Configuration



Support Large-screen up to 24" TFT-LCD



High-performance Platform HMI / Panel PC

## PoE solution Benefits your Application



Installation-friendly



Cost-effectiveness



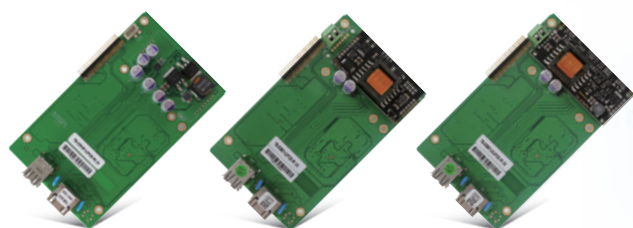
Low maintenance requirement

Through Power-over-Ethernet, power and data will travel down the same Ethernet cable. It only needs a single network cable, gives the simpler and quicker installations, even in hard-to-reach area, APLEX PoE-enabled Panel PC can be easily mounted wherever.

PoE solution gives priority to industrial application. With future needs in mind, by deploying PoE solution, many manufacturers are turning to comprehensive IIoT and Industry 4.0 era. Get a fanless design, great heat dissipation, power efficiency and long-term stability panel PC for achieving the specific requirement, providing a clear choice in industrial application.

## Upgrade Path for Industry 4.0 Application

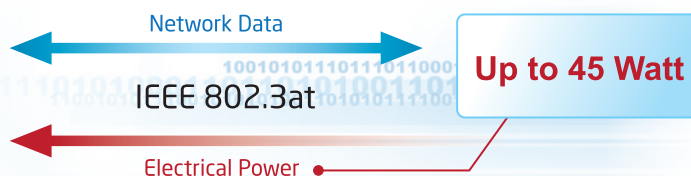
Based on APLEX PoE+ extension modules (TB-528E1U2UPOE and so on), the higher power efficiency is assured to be available up to 45 watt which is suitable for our large-screen and high-performance HMI/panel PC/Box PC.



▲ TB-528NE1U2POE

▲ TB-528E1U2POE

▲ TB-528E1U2UPOE



| PoE Card / Module         | TB-528E1U2POE | TB-528NE1U2POE | TB-528E1U2UPOE | AG5300    |
|---------------------------|---------------|----------------|----------------|-----------|
| Power Consumption Support | up to 25W     | up to 25W      | up to 45W      | up to 25W |



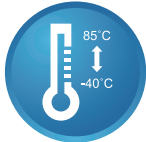
Effectively supported by our large-screen with high-performance HMI/Panel PC

# The Most Reliable Motherboards Ever Cover All Your Needs

## APLEX Industrial Boards are Ready for Embedded Solutions



APLEX industrial board series is designed to improve the expansibility ability and reliability. It comes with high flexibility encompass abundant I/O connectivity, expansion capability and OS supported. APLEX utilizes its exceptional ability to combine both software and hardware and expand its global market share around the world.



- **Support Wide Range DC Power Input**

Wide range DC power input from 9 to 36V supports a variety of applications, and it allows up to 8A current input with each pin which can be fully compatible with different power supplied environments.

- **High Expansibility**

Flexible expansibility with various I/O boards and riser cards provide additional functions to give your business a comprehensive application.

- **Countercurrent Protection on USB ports**

Avoid systems shutting down caused by the countercurrent from USB devices.

- **Wide Operating Temperature**

Wide operating temperature is ranging from -20 to 70°C/-40 to 85°C for option, enables the boards to be used in extreme harsh environments.

- **Short Circuit Prevention**

Avoid industrial boards to be damaged by the short circuit problem, keep a smooth operation and assure the safety.

## Diverse Form Factors



▲ 3.5" ECX



▲ 4" EPIC



▲ Mini-ITX



▲ 5.25" EBX



▲ Core Module

APLEX provides diverse form factors from 3.5" ECX, 4" EPIC to Mini-ITX which are based on x86 and ARM platform. 3.5" ECX board provides complete I/O interface which is suitable for being applied to compact devices, such as thin client or various space-limited devices; 4" EPIC board can be expanded by rich I/O boards; Mini-ITX board can have more functionality by riser cards that provide convenient and flexible expansion ability. All of them are ideal to be applied to panel PC, box PC, HMI and many industrial applications.

APLEX also offers customized products and OEM/ODM services for all-round embedded solutions. As the global industrial computer and embedded board provider, APLEX commits to offer customers the comprehensive products and service to meet their requirements.

## High-Flexible Expansion Ability



▲ Riser Card



▲ I/O Board

APLEX's industrial boards are able to be equipped with different expansion modules of riser cards and I/O boards that offer a highly flexible configuration. The expandable I/O interface and slot provide additional functions to give your business the all possible applications, becoming one of the best choice of your embedded solutions.



- A Full Spectrum of Motherboards
- A Broad Range of Industrial Applications
- OEM & ODM Experience
- Time to Market





# Place All-around Features on APLEX Industrial Computer



## Rugged Enclosure

APLEX's rugged design strengthens the products, giving the longer life cycle. The rugged enclosure includes SUS304/316 stainless steel, Aluminum and engineer plastic. By APLEX stainless steel solution, SUS316 features the most protective construction, serving the anti-corrosion and anti-oxidation enclosure, also it is green material with 100% recycle.



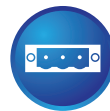
## Sunlight Readable Solution

APLEX's sunlight readable solution brings the clear and brilliant visibility under high light condition. It updates the backlight LCD to high brightness (up to 1000 nits), and the brightness can be automatically adjusted. It also drives the adoption of optical bonding and surface coating, giving a user-friendly surface when users are operating. Additionally, in large temp. difference environment, optical bonding is recommended for preventing the glass from fogging up, showing the better clarity.



## Thermal Technology

APLEX's thermal technology allows heat to be dissipated through conduction. Without fan design, it takes unique metal as the thermal conductivity to transfer the heat that can spontaneously flow from processor to back cover. It also enables the products to take place somewhere within -20°C-60°C such as hazardous environment. (optical bonding is also recommended in large temp. difference environment)



## Wide Power Input

APLEX's wide power input enhances the voltage-carrying capability, avoiding power failure caused by voltage fluctuations. Bringing the flexibility, convenience, enhancing the stability.

APLEX guarantees the long-term product life cycle, and provides the outstanding quality. We meticulously design each detail of mechanism with innovative technology, giving many solutions that meet different requirements to overcome difficulties. Here are few features that APLEX places importance on.



### Control Panel Design

APLEX's control panel design is comprised of multi-touch screen and flat front panel with our excellent panel adhesive technology. The resistive or capacitive touch can perfectly adheres to the LCD, it shows a truly-flat front panel, and prevents the dust and water accumulation.



### Waterproof and Dustproof Solution

APLEX's water- and dustproof solution gives the most protective standard, the IP rating, which is based on International standard IEC 60529. APLEX IP66/67/69K rated industrial computers including Panel PC, HMI, Box PC are available for different applications.



### Quality Assurance

APLEX passes different certificates for extending the different applications. In addition to ISO-9000/14001, CE/FCC/UL/ RoHs safety certificate, MIL810F/ IEC60068-2-27 for logistic management; DIN EN 1672-2 and NSF/ANSI/3-A, FDA 21 CFR Part 11 and ANSI/ASME B46.1 for food and beverage industry; ATEX Zone 2/ IECEx/C1D2 for oil and gas industry.



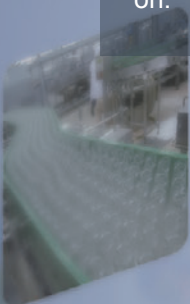
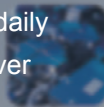
### OS Support

APLEX has completed Embedded OS support including windows, Linux and Android for both x86 and ARM based system.



# APPLICATION

APLEX's product portfolio includes human machine interface (HMI), Industrial Panel PC, Embedded BOX PC, Industrial, etc. They are applied to equipment automation, factory management, monitoring systems, and even automation in daily life. Moreover, APLEX product categories cover logistic management systems, intelligent transportation management systems, building automation and monitoring systems, kiosk systems, etc. We provide a wide range of applications from common factory production, commercial automation, transportation, railway, marine to medicine, and so on.





# APPLICATION

The vertical market is a market in which vendors offer goods / services specific to an industry. In industrial PCs industry, it refers to specific applications such as factory automation, transportation, medication, hazardous, logistics , smart buildings, surveillance/security, military, and so on. APLEX provides related hardware platforms and complete services and solutions to meet customers' needs in different industries and applications.





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# Stainless Steel Panel PC



Considering the most protective standard, stainless steel is the first option due to its good corrosion, heat and impact resistance, it has the high degree of hardness and low maintenance cost. APLEX provides the products with long-term lifecycle for different applications that can be used in extremely harsh environments.

APLEX's stainless steel panel PC product line is both aesthetic and functional; the stainless steel construction, fully IP66/69K water-and dust-proof protection with the flat front panel and projected capacitive multi-touch technology, which is suitable for applications that required highly durable, stiff and sanitary demands.

APLEX is the technology leader in the field of developing stainless steel panel PCs. In order to meet the harsh demands, APLEX will continuously dedicate to the development of comprehensive products, with an emphasis on quality assurance and complete after-sales service.

Quick Guide

>>

Stainless Steel Panel PC

| Model Name         | PhanTAM-9C                             | ViTAM-9B                              | ViTAM-9A                              |
|--------------------|----------------------------------------|---------------------------------------|---------------------------------------|
| CPU                | 11 <sup>th</sup> Gen. Intel Core i3/i5 | 8 <sup>th</sup> Gen. Intel Core i3/i5 | 6 <sup>th</sup> Gen. Intel Core i3/i5 |
| Memory             | 2 x SO-DIMM DDR4 up to 64GB            | 2 x SO-DIMM DDR4 up to 64GB           | 1 x SO-DIMM DDR4 up to 16GB           |
| Touch screen       | Resistive/Projected capacitive         | Resistive/Projected capacitive        | Resistive/Projected capacitive        |
| Display Size       | 15.6"/21.5"                            | 15"/15.6"/17"/19"/21.5"/23.8"         | 15"/15.6"/17"/19"/21.5"/23.8"         |
| External Connector | M12                                    | M12                                   | M12                                   |
| IP rating          | Total IP66/69K                         | Total IP66/69K                        | Total IP66/69K                        |

| Model Name         | ViTAM-8                                      | ViTAM-6                        | AEx-9A                                |
|--------------------|----------------------------------------------|--------------------------------|---------------------------------------|
| CPU                | Intel Celeron N2930                          | i Max6 Dual Lite Core          | 6 <sup>th</sup> Gen. Intel Core i3/i5 |
| Memory             | Onboard DDR3L 4GB                            | Onboard 1GB DDR3               | 1 x SO-DIMM DDR4 up to 16GB           |
| Touch screen       | Resistive/Projected capacitive               | Resistive/Projected capacitive | Projected capacitive                  |
| Display Size       | 10.1"/12.1"/15"/15.6"<br>17"/19"/21.5"/23.8" | 10.1"/12.1"/15"/21.5"          | 15"/15.6"/19"/21.5"                   |
| External Connector | M12                                          | M12                            | M12                                   |
| IP rating          | Total IP66/69K                               | Total IP66/69K                 | Total IP66                            |

| Model Name         | AEx-8                | APC-3X94                       |
|--------------------|----------------------|--------------------------------|
| CPU                | Intel Celeron N2930  | Intel Celeron N2930            |
| Memory             | Onboard DDR3L 4GB    | Onboard DDR3L 4GB              |
| Touch screen       | Projected capacitive | Resistive/Projected capacitive |
| Display Size       | 15"/15.6"/19"/21.5"  | 15"/17"/19"                    |
| External Connector | M12                  | M12                            |
| IP rating          | Total IP66/69K       | Total IP66/69K                 |



# PhanTAM Series

The new generation Stainless Steel Solution  
with comprehensively upgraded waterproof  
and hygienic design





# PhanTAM Series

PhanTAM is a new rugged series of stainless steel display and panel PC, which offers all-round features with high-performance 11th Gen. Intel Core i3/i5 processor. It features slim front frame for space-saving, fully waterproof function, gap free-sealing and front bezel with no screws for water, dust and germs ingress. PhanTAM is perfectly designed for factories that require high standards of hygiene, especially for clean room, pharmaceutical, food and beverage industry, which must ensure their sanitation and prevent products from bacteria.



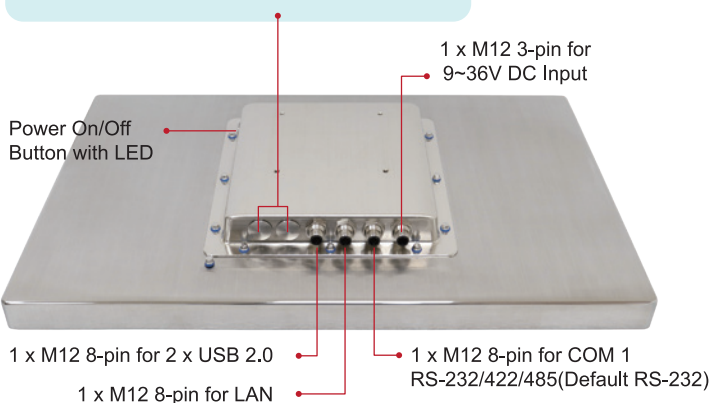
## Stainless Steel Rugged Chassis

Stainless steel has various advantages. With its great corrosion resistance and easy cleaning features, it is the perfect material for factories that seem sanitation as a crucial issue. Moreover, it is also durable, long-lasting and cost-saving.

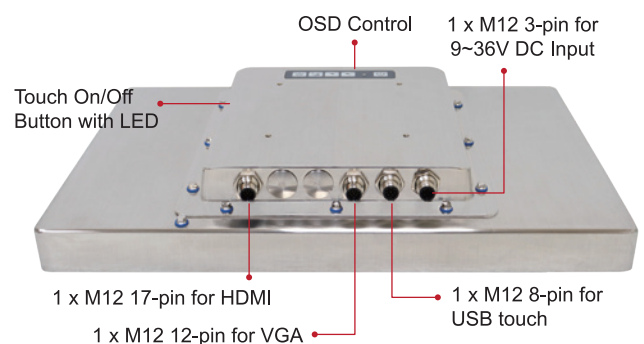
|                                       |                       |                      |                                             |                                        |                  |                                       |                                 |
|---------------------------------------|-----------------------|----------------------|---------------------------------------------|----------------------------------------|------------------|---------------------------------------|---------------------------------|
| <p>SUS 304/316<br/>Anti-Oxidation</p> | <p>Anti-Corrosion</p> | <p>Easy to Clean</p> | <p>Rugged Enclosure<br/>Long Life Cycle</p> | <p>Green Material<br/>100% Recycle</p> | <p>Non-Toxic</p> | <p>Wide Range Temp.<br/>Resistant</p> | <p>Low Maintenance<br/>Cost</p> |
|---------------------------------------|-----------------------|----------------------|---------------------------------------------|----------------------------------------|------------------|---------------------------------------|---------------------------------|

### 2 x Blanks for Option:

- 2 x USB 2.0
- 1 x COM
- 1 x USB 3.2 Gen.1
- 1 x LAN
- 1 x CAN
- 1 x HDMI



Panel PC



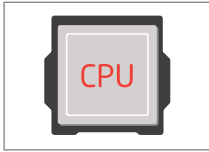
Display

Stainless Steel  
Enclosure

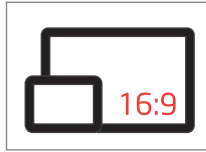
Smooth Surface

Easy to Clean

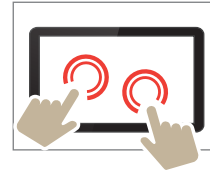
## FEATURES



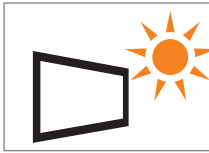
11th Gen.  
Intel Core i3/i5



15.6"/ 21.5"  
TFT-LCD



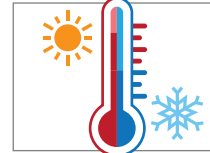
RT / PCT  
Multi-touch Screen



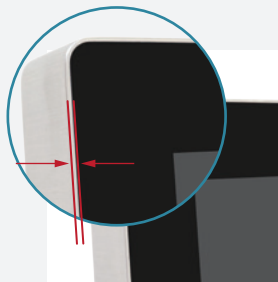
High  
Brightness



Auto-dimming

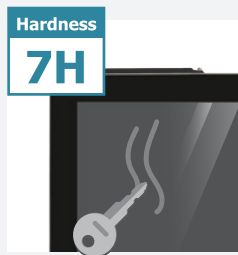


Wide Range Operating  
Temperature from 0~50°C



### Stylish

- Super Narrow Border
- Slim Front Frame
- Lightweight



### Rugged Design

- 7H Hardness  
(9H for option)



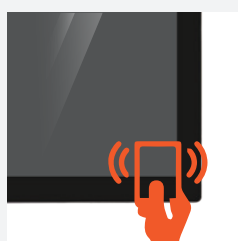
### Easy to Clean

- IP66/ IP69K
- Gap-less Sealing
- Smooth Surface
- Fanless Design



### Wi-Fi/Bluetooth

- Wi-Fi 6
- Waterproof Antenna Cover



### RFID Module

RFID is Essential to Hygienic  
Factory by Contactless Operating.



## Special Mounting for Versatile

PhanTAM series supports efficient cable management  
and space-saving environment. Besides, we also o

### Support Different Configuration





## WATERPROOF & DUSTPROOF SOLUTION

PhanTAM is certified with all-round IP66/ IP69K, which can resist intensive cleaning with high pressure and high temperature water jet. Moreover, with waterproof antenna covers, M12 connectors, hygienic bolts, rubber sealing and completely sealed chassis, PhanTAM can prevent dirt and bacteria from accumulating.

# Completely IP Tested



**Wireless Antenna Cover**



**Special Hygienic Component**

Hygienic Bolts with Blue Silicone Rubber O-ring



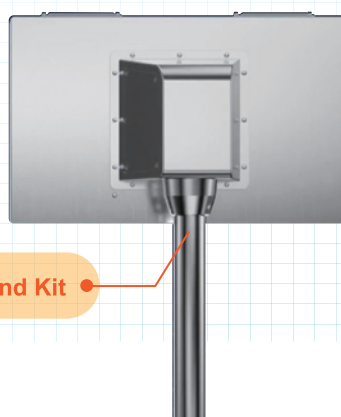
**M12 Connectors**

## e Applications

ent swing arm/ floor stand for cable dressing. It can provide an organized format for system maintenance  
ffer VESA 100 x 100 mount to fit in any applications.



**Swing ARM Kit**

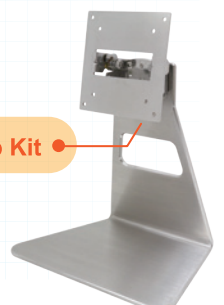


**Floor Stand Kit**



**Wall Mount Kit**

**Desktop Kit**



VESA Mount | 100 x 100



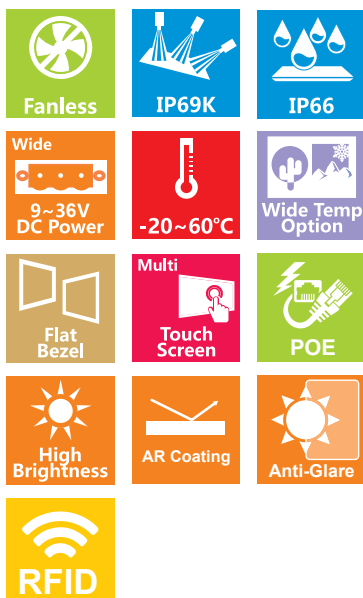


# PhanTAM-9XXC Series

IP66/IP69K Waterproof

11th Gen. Intel® Core™ i3/i5 Panel PC

- Onboard 11th Gen. Intel® Core™ i3/i5 Processor
- 2 x 260-pin SO-DIMM up to 64GB DDR4
- Fanless Design
- Touch on/off button on the side
- RFID module design on the front side(optional)



Support Resistive Touch and Projected Capacitive Touch



Touch on/off Button on the Back Side for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors

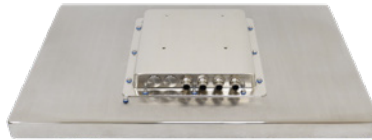


Waterproof Wireless Antenna Covers to Solve the Bend Damage and Easy to Clean



Special Hygienic Bolts on Rear Case





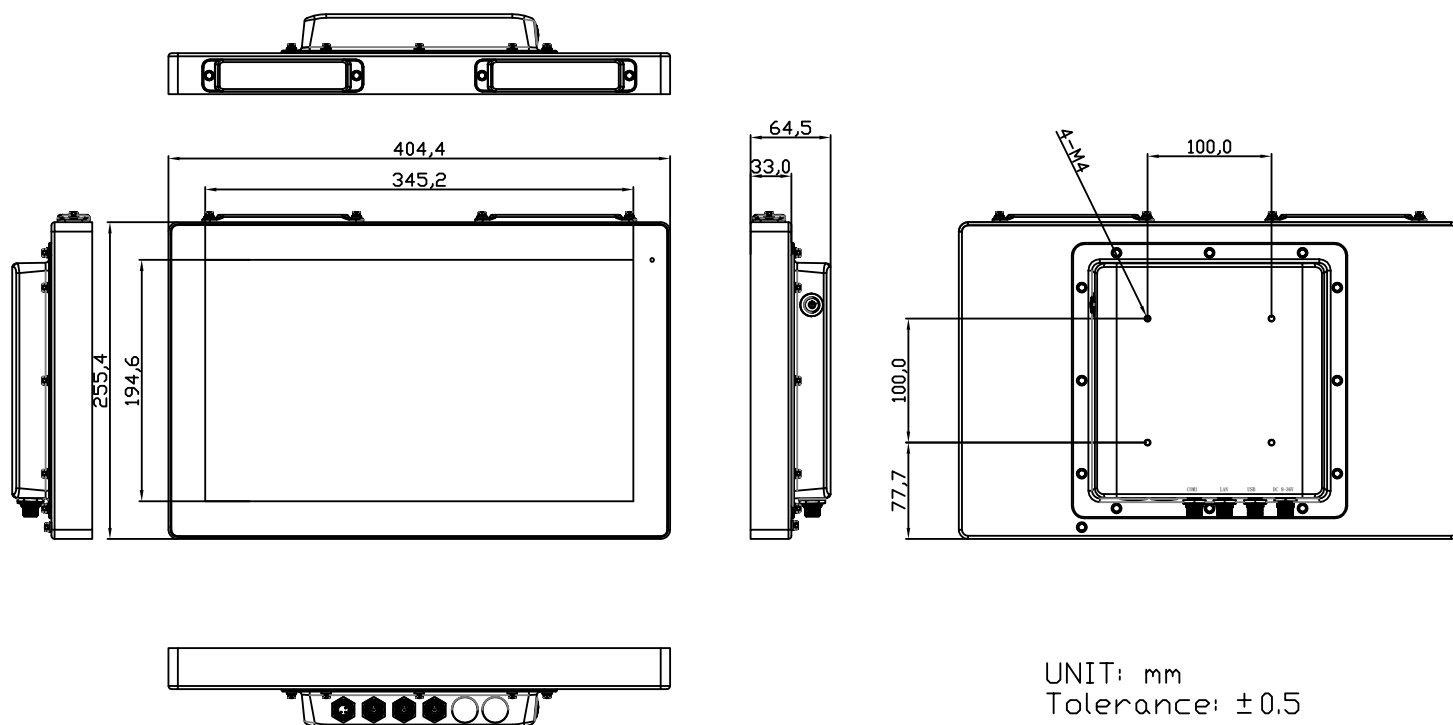
## Specifications

| Model Name                | PhanTAM-916CP/R(H)                                                                                                                                                                    |                                  | PhanTAM-921CP/R(H)             |                                  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|----------------------------------|
| System                    |                                                                                                                                                                                       |                                  |                                |                                  |
| Processor                 | Onboard 11th Gen Intel Core i3/i5 Processor                                                                                                                                           |                                  |                                |                                  |
| System Chipset            | SoC                                                                                                                                                                                   |                                  |                                |                                  |
| System Memory             | 2 x 260-pin SO-DIMM up to 64GB DDR4 3200MHz (option)                                                                                                                                  |                                  |                                |                                  |
| External I/O              |                                                                                                                                                                                       |                                  |                                |                                  |
| USB                       | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                       |                                  |                                |                                  |
| Serial/Parallel           | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover                                                                                                             |                                  |                                |                                  |
| LAN                       | 1 x M12 8-pin for LAN with waterproof cover                                                                                                                                           |                                  |                                |                                  |
| Others                    | 1 x Power on/off button at rear side                                                                                                                                                  |                                  |                                |                                  |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover                                                                                                                                      |                                  |                                |                                  |
| Option                    | 2 x optional blank M12 connector with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>1 x USB 3.2 Gen.1<br>1 x HDMI<br>1 x LAN<br>1 x COM<br>1 x CAN |                                  |                                |                                  |
| Storage Space             |                                                                                                                                                                                       |                                  |                                |                                  |
| SSD/HDD                   | 1 x M-Key 2280 (PCIe only) for SSD                                                                                                                                                    |                                  |                                |                                  |
| Expansion                 |                                                                                                                                                                                       |                                  |                                |                                  |
| Expansion Slot            | 1 x Full size mPCIe/mSATA (mPCIe as default, select by BIOS)<br>1 x M.2 E-key 2230 (PCIe+USB) for optional WIFI/BT module                                                             |                                  |                                |                                  |
| RFID Module               | RFID module design on the front side (optional)                                                                                                                                       |                                  |                                |                                  |
| Display                   | PhanTAM-916CP<br>PhanTAM-916CR                                                                                                                                                        | PhanTAM-916CPH<br>PhanTAM-916CRH | PhanTAM-921CP<br>PhanTAM-921CR | PhanTAM-921CPH<br>PhanTAM-921CRH |
| Display type              | 15.6" TFT-LCD                                                                                                                                                                         | 15.6" TFT-LCD                    | 21.5" TFT-LCD                  | 21.5" TFT-LCD                    |
| Max. resolution           | 1366 x 768                                                                                                                                                                            | 1366 x 768                       | 1920 x 1080                    | 1920 x 1080                      |
| Max. color                | 16.7M                                                                                                                                                                                 | 16.7M                            | 16.7M                          | 16.7M                            |
| Luminance(cd/m²)          | 400                                                                                                                                                                                   | 1000                             | 250                            | 1000                             |
| View angle(H°/V°)         | 170/160                                                                                                                                                                               | 170/130                          | 178/178                        | 178/178                          |
| Contrast                  | 500:1                                                                                                                                                                                 | 800:1                            | 1000:1                         | 3000:1                           |
| Backlight lifetime(hrs)   | 50000                                                                                                                                                                                 | 50000                            | 50000                          | 50000                            |
| Touch Screen              |                                                                                                                                                                                       |                                  |                                |                                  |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)                                                                                                                     |                                  |                                |                                  |
| Interface                 | USB                                                                                                                                                                                   |                                  |                                |                                  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                   |                                  |                                |                                  |
| Power                     |                                                                                                                                                                                       |                                  |                                |                                  |
| Power input               | DC 9~36V                                                                                                                                                                              |                                  |                                |                                  |
| Power Consumption (TYP.)  | PhanTAM-916CP:32W                                                                                                                                                                     |                                  | PhanTAM-921CP:34W              |                                  |
| Mechanical                |                                                                                                                                                                                       |                                  |                                |                                  |
| Construction              | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                           |                                  |                                |                                  |
| IP rating                 | Total IP66/IP69K                                                                                                                                                                      |                                  |                                |                                  |
| Mounting                  | VESA mount 100 x 100                                                                                                                                                                  |                                  |                                |                                  |
| Dimension(mm)             | 404.4 x 225.4 x 64.5                                                                                                                                                                  |                                  | 540.4 x 332.4 x 61.5           |                                  |
| Net weight(Kg)            | 5.4                                                                                                                                                                                   |                                  | 7.9                            |                                  |
| Environment               |                                                                                                                                                                                       |                                  |                                |                                  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                                                                                 |                                  |                                |                                  |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                |                                  |                                |                                  |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                                                                                                                     |                                  |                                |                                  |
| Certification             | CE/FCC Class A                                                                                                                                                                        |                                  |                                |                                  |
| Operating System Support  |                                                                                                                                                                                       |                                  |                                |                                  |
| Windows 10 IoT Enterprise |                                                                                                                                                                                       |                                  |                                |                                  |

## PhanTAM-9XXC Series

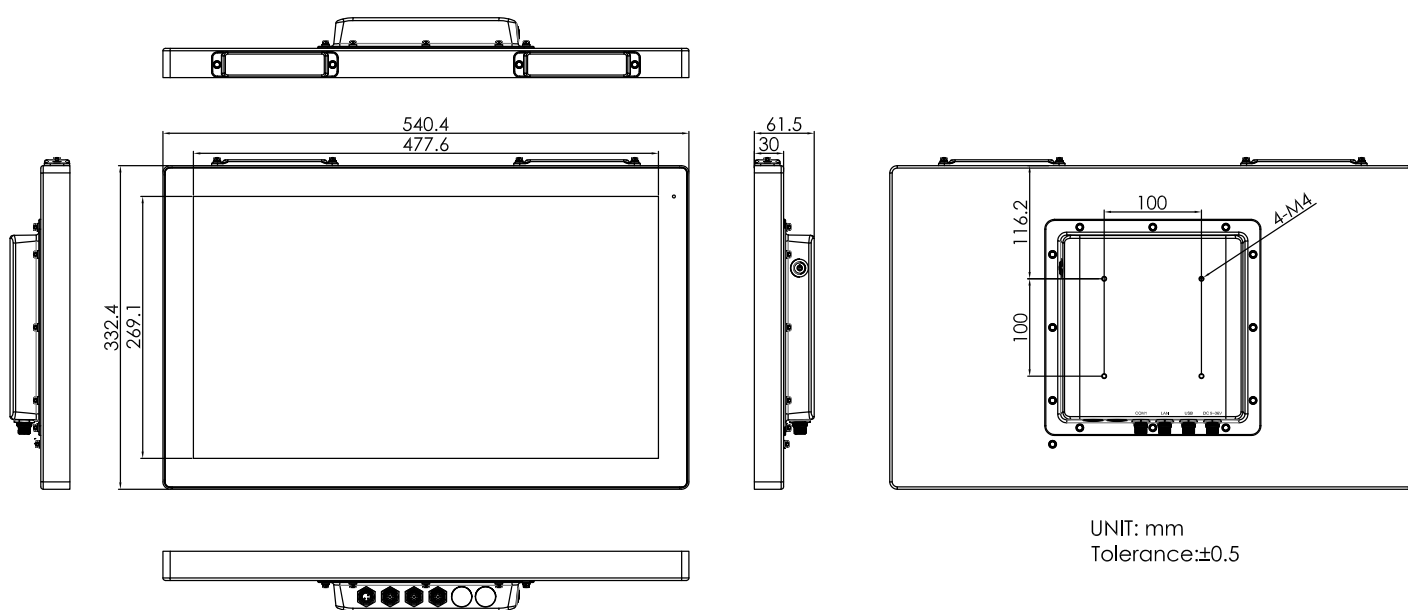
11<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

### PhanTAM-916CP/R(H)



unit:mm

### PhanTAM-921CP/R(H)



unit:mm

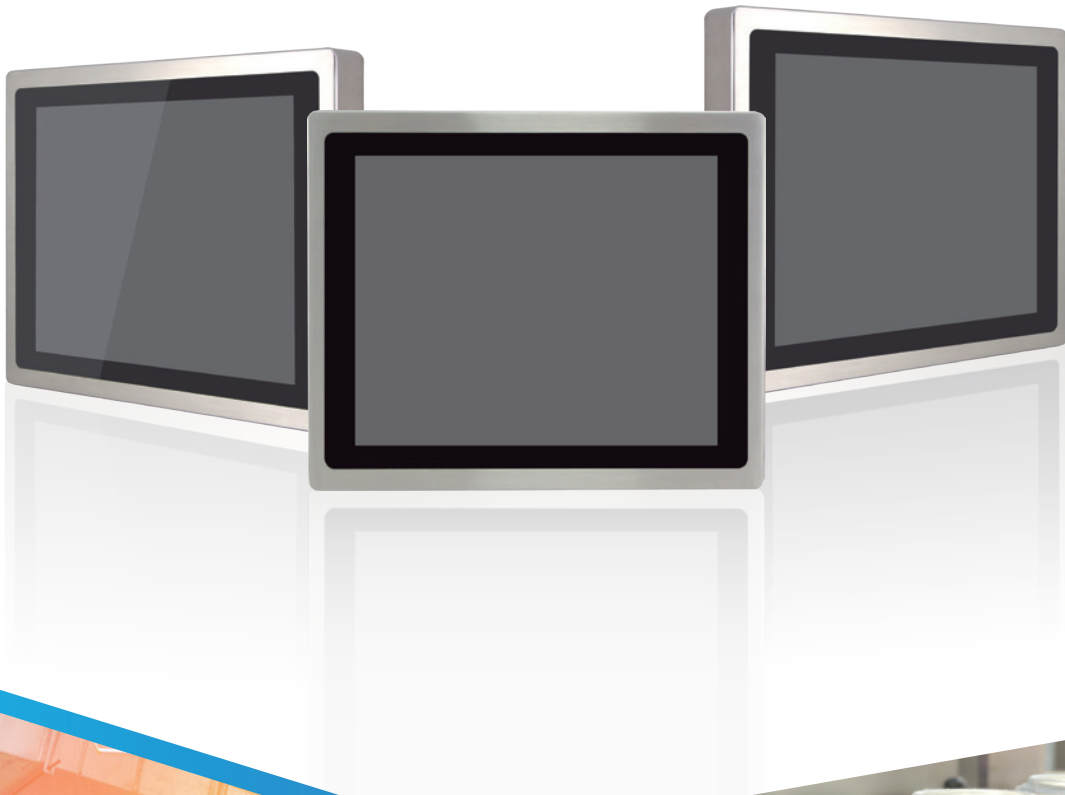


## Ordering information

| Model NO.            | Description                                                                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PhanTAM916CP</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter               |
| <b>PhanTAM916CR</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter            |
| <b>PhanTAM916CPH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits    |
| <b>PhanTAM916CRH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits |
| <b>PhanTAM921CP</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                |
| <b>PhanTAM921CR</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter             |
| <b>PhanTAM921CPH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits     |
| <b>PhanTAM921CRH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 11th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits  |

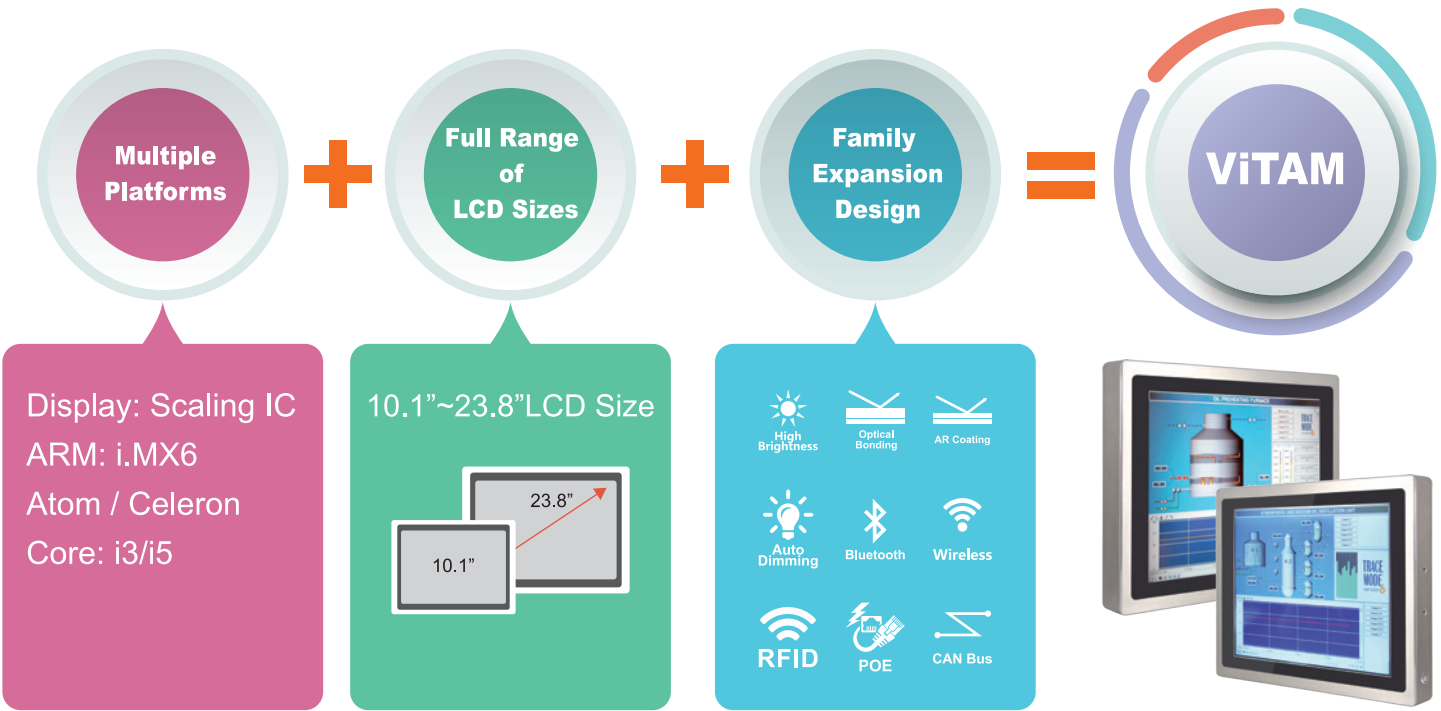
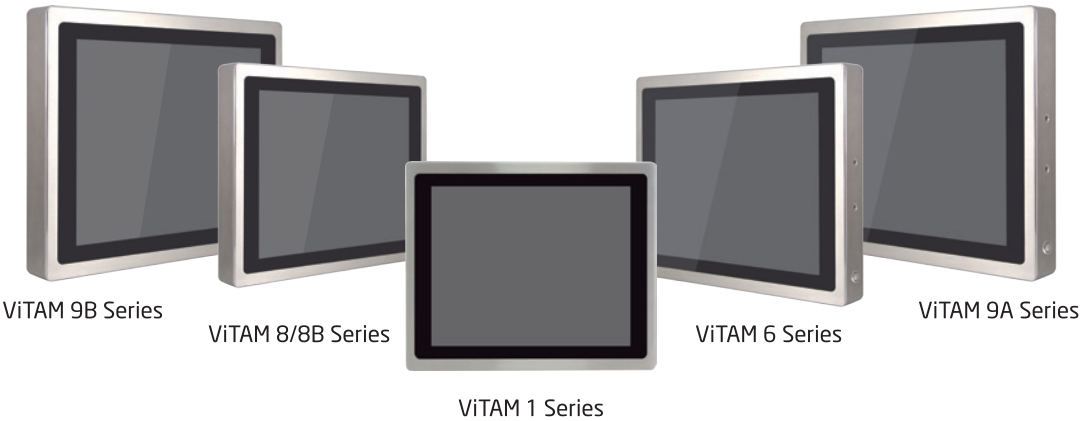
# ViTAM

Stainless Steel Panel PC Solutions



## The Most Reliable Stainless Steel Panel Solutions Ever

The ViTAM series comes in panel PCs and industrial monitors with all-around features, the Panel PCs are ready for ARM based or X86 based platform which deliver four computing performance levels. ViTAM series brings the most protective panel solution, it goes beyond the basic standard by achieving all IP66 and IP69K-certified with M12 connectors which is capable of withstanding the high-pressure water washing down and preventing the machine from dust accumulation. All is designed for a wide range of industrial applications including food/beverage, chemical, factory automation and other high standard environment. The further information is illustrated below:

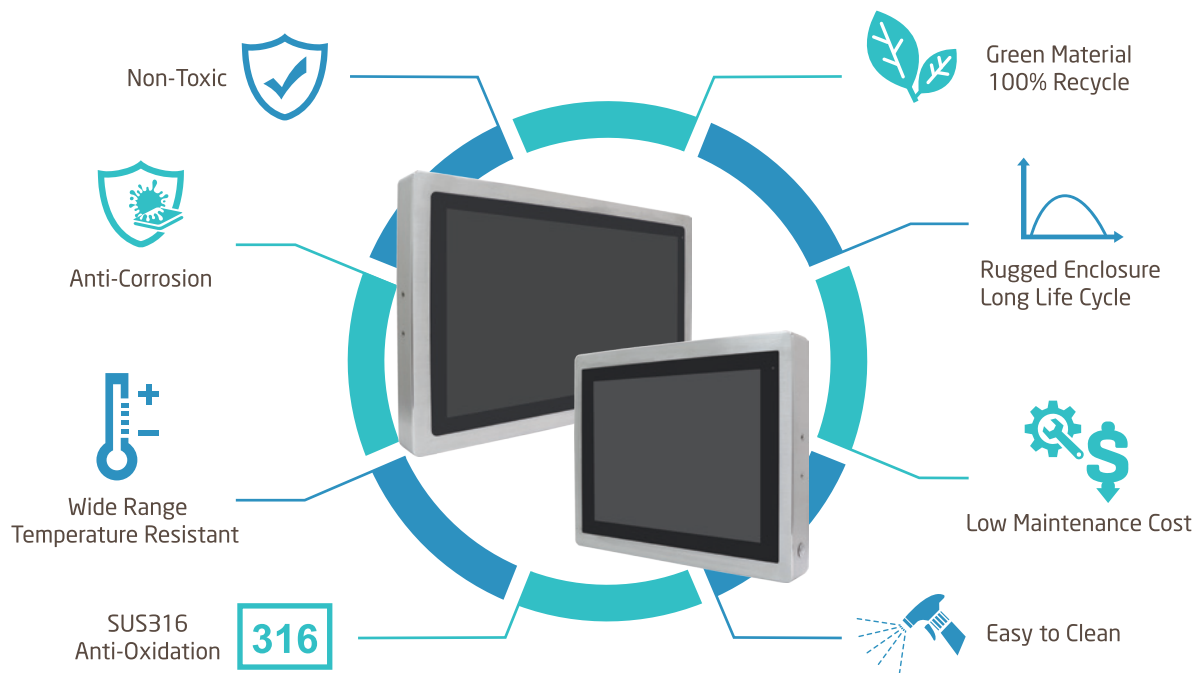


## VERSATILE MOUNTING





## WHY STAINLESS STEEL ?



Sanitation is a serious issue of food/beverage industry so it is necessary to do the intensive cleaning to maintain the hygienic environment. Stainless steel is the first option in food and beverage manufacturing industry due to its cleanability, high corrosion resistance, and germ-resistant which can prevent the food/beverage from bacterial poisoning and will not damage people's health.

## FEATURES HIGHLIGHT



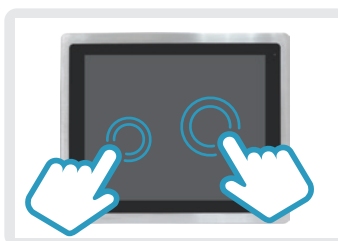
### Wide Range DC 9~36V Power Input

DC 9~36V wide range power input brings the advantage of flexibility and reliability in case the voltage of equipment is different or unstable.



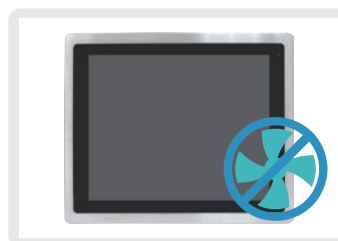
### Sunlight Readable Solution

Surface coating are provided, and the brightness can be automatically controlled up to 1000 nits based on the light condition. Optical bonding is recommended in large temp. difference environment which can prevent the glass from fogging up.



### PCT Multi-touch Screen with 7H Anti-scratch Surface

All series equipped with multi-touch for the exclusive requirement and 7H anti-scratch interface for the tough protection.(PCT model)



### Fanless Design

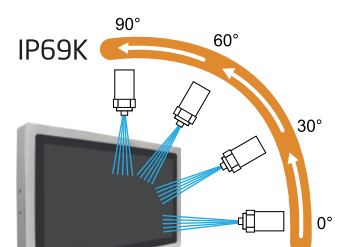
Fanless design for easily maintaining the equipment. Preventing from accumulating dust.



0~50 °C  
-20~60 °C for option

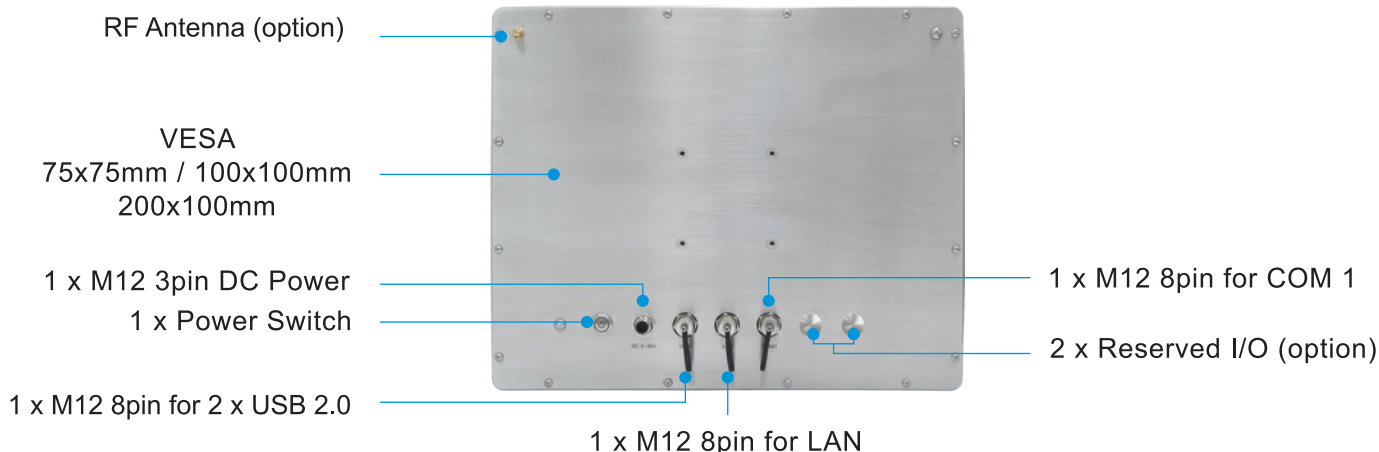
(\*Optical bonding is also recommended)

APLEX ViTAM series all passed wide range temperature and IP66/69K testing.



100 Bars at 80 degrees C

## ViTAM Panel PCs



## ViTAM Display



\* It is recommended to add one HUB to enhance the signal for USB3.0 while you select the optional M12 to USB 3.0 extended cable is longer than one meter.

## ViTAM Series Informantion (Standard)

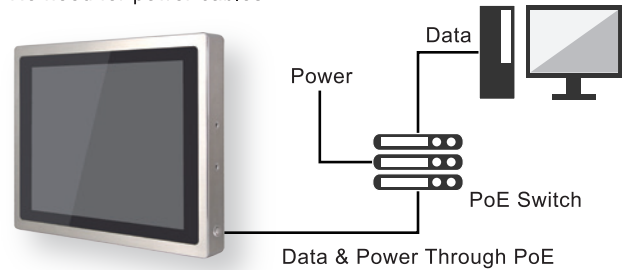
| Capacity      | ViTAM-1                                              | ViTAM-6                            | ViTAM-8                            | ViTAM-8B                                     | ViTAM-9A                         | ViTAM-9B                                     |
|---------------|------------------------------------------------------|------------------------------------|------------------------------------|----------------------------------------------|----------------------------------|----------------------------------------------|
| Category      | Monitor                                              | Web HMI (i.MX6)                    | Client (N2930)                     | Client (J6413)                               | Master (6th Gen. Core i)         | Master (8th Gen. Core i)                     |
| Touch Screen  | Projected Capacitive Touch / Resistive Touch / Glass |                                    |                                    |                                              |                                  |                                              |
| Size          | 10.1"~23.8"                                          | 10.1"~15", 21.5"                   | 10.1"~23.8"                        | 10.1"~23.8"                                  | 15"~23.8"                        | 15"~23.8"                                    |
| System Memory | -                                                    | Onboard 1GB DDR3 SDRAM             | Onboard 4GB DDR3L SDRAM, up to 8GB | 1 x SO-DIMM DDR4 slot, up to 32GB            | 1 x SO-DIMM DDR4 slot, up to16GB | 2 x SO-DIMM DDR4 slot, up to 64GB            |
| Storage       | -                                                    | Onboard 4GB eMMC NAND Flash        | 1 x 2.5" SATA3 HDD                 | 1 x 2.5" SATA3 HDD<br>1 x M-Key 2280 for SSD | 1 x 2.5" SATA3 HDD               | 1 x 2.5" SATA3 HDD<br>1 x B-Key 2280 for SSD |
| OS Support    | -                                                    | Android 6.0.1, Linux kernel 4.9.88 | Windows 10 IoT ENT LTSC            |                                              |                                  |                                              |
| Certificate   |                                                      |                                    | CE / FCC Class A                   |                                              |                                  |                                              |

# Expansion Capability



## PoE Module

- Cost savings in network installation & energy management
- Flexible and ideal for remote control management
- No need for power cables



## RFID Module

- Read-write module enables data to be changed over time
- Built in IP66 waterproof design
- External Cableless



## CAN bus Module

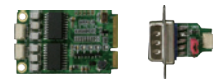
### TB-528CAN2:

- 2 x USB 2.0, 2 x CAN,
- 2 x COM (RS-232), 1 x Mini-PCIe,
- 1 x SIM slot



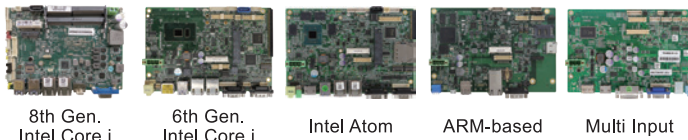
### TB-553CAN2 (TB-215)

- 2 x CAN
- Support CANopen Protocol



## Motherboards

## AD board



## TB-528 series

- **TB-528U4:** 4 x USB 2.0
- **TB-528U4ME1:** 4 x USB 2.0, 1 x Mini-PCIe, 1 x SIM slot
- **TB-528C1U2:** 1 x COM (RS-232), 2 x USB 2.0
- **TB-528C1U2P1:** 1 x COM (RS-232), 2 x USB 2.0, 1 x Power Button
- **TB-528C2:** 2 x COM (RS-232)
- **TB-528C2ME1:** 2 x RS-232, 1 x Mini-PCIe slot, 1 x SIM slot
- **TB-528C2I:** 2 x RS-422/RS-485, Isolated
- **TB-528E1U2:** 1 x LAN, 2 x USB 2.0
- **TB-528NE1U2POE:** 1 x LAN(25W non-isolated PoE PD), 2 x USB 2.0 type A

- **TB-528E1U2UPOE:** 1 x LAN(45W isolated PoE PD), 2 x USB 2.0 type A
- **TB-528E1U2POE:** 1 x LAN(25W isolated PoE PD), 2 x USB 2.0 type A

# ViTAM Optional Selection Guide

| Capacity                     | Series Name | ViTAM 1                 | ViTAM 6                 | ViTAM 8                 | ViTAM 8B                | ViTAM 9A                | ViTAM 9B                |
|------------------------------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| PoE                          |             | NA                      | ●                       | ●                       | ●                       | ●                       | NA                      |
| RFID                         |             | NA                      | ●                       | ●                       | ●                       | ●                       | ●                       |
| CAN                          |             | NA                      | ●                       | ●                       | ●                       | ●                       | ●                       |
| Dimming                      |             | ●<br>(Except 19"/23.8") | ●<br>(Except 19"/23.8") | ●<br>(Except 19"/23.8") | ●<br>(Except 19"/23.8") | ●<br>(Except 19"/23.8") | ●<br>(Except 19"/23.8") |
| High Brightness (1,000 nits) |             | ●                       | ●                       | ●                       | ●                       | ●                       | ●                       |
| Optical Bonding              |             | ●                       | ●                       | ●                       | ●                       | ●                       | ●                       |
| AR Coating                   |             | ●                       | ●                       | ●                       | ●                       | ●                       | ●                       |
| Wi-Fi / Bluetooth            |             | NA                      | ●                       | ●                       | ●                       | ●                       | ●                       |
| SUS316 Enclosure             |             | ●                       | ●                       | ●                       | ●                       | ●                       | ●                       |





# ViTAM-9XXB Series

IP66/IP69K Waterproof

8<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

- 8<sup>th</sup> Gen. Intel® Core™ Processor
- 2 x 260-pin SO-DIMM up to 64GB DDR4
- Fanless Design
- Touch on/off button on the side
- RFID module design on the front side(optional)



Support Resistive Touch and Projected Capacitive Touch



Touch on/off Button on the Side Edge for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors



Support Ergonomic Versatile Mounting Space-saving VESA Mounting

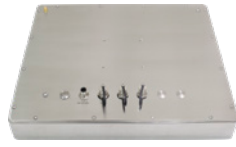


Support Wide-Range Temperature -20°~60°C



# ViTAM-9XXB Series

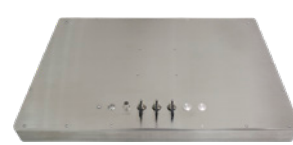
8<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC



## Specifications

| Model Name                | ViTAM-915BP(H)<br>ViTAM-915BR(H)                                                                                                   |                              | ViTAM-916BP(H)<br>ViTAM-916BR(H) |                              | ViTAM-917BP(H)<br>ViTAM-917BR(H) |                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|
| System                    |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Processor                 | Onboard 8th Gen Intel Core i3/i5 Processor                                                                                         |                              |                                  |                              |                                  |                              |
| System Chipset            | SoC                                                                                                                                |                              |                                  |                              |                                  |                              |
| System Memory             | 2 x 260-pin SO-DIMM up to 64GB DDR4 2400MHz (option)                                                                               |                              |                                  |                              |                                  |                              |
| External I/O              |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| USB                       | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                    |                              |                                  |                              |                                  |                              |
| Serial/Parallel           | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover                                                          |                              |                                  |                              |                                  |                              |
| LAN                       | 1 x M12 8-pin for LAN with waterproof cover                                                                                        |                              |                                  |                              |                                  |                              |
| Others                    | 1 x Touch on/off button at edge side                                                                                               |                              |                                  |                              |                                  |                              |
| Power connector           | 1 x M12 3pin for DC Power with waterproof cover, 1 x Power Switch on the rear side                                                 |                              |                                  |                              |                                  |                              |
| Option                    | 2 x optional blank M12 connectors with waterproof cover for selecting two from the following options:                              |                              |                                  |                              |                                  |                              |
|                           | 2 x USB 2.0                                                                                                                        |                              |                                  |                              |                                  |                              |
|                           | 1 x USB 3.2 Gen.1                                                                                                                  |                              |                                  |                              |                                  |                              |
|                           | 1 x LAN(POE for option)                                                                                                            |                              |                                  |                              |                                  |                              |
|                           | 1 x COM                                                                                                                            |                              |                                  |                              |                                  |                              |
|                           | 1 x CAN                                                                                                                            |                              |                                  |                              |                                  |                              |
| Storage Space             |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| SSD/HDD                   | 1 x B-Key 2280 (SATA as default, PCIe select by BIOS) for SSD<br>1 x 2.5" SATA3 HDD/SSD(optional)                                  |                              |                                  |                              |                                  |                              |
| Expansion                 |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Expansion Slot            | 1 x Full-size mini-PCle socket (PCIe + USB) for WIFI/BT/LTE(optional)<br>1 x M.2 E-key 2230 (PCIe+USB) for optional WIFI/BT module |                              |                                  |                              |                                  |                              |
| RFID Module               | RFID module design on the front side(optional)                                                                                     |                              |                                  |                              |                                  |                              |
| Display                   | ViTAM-915BP<br>ViTAM-915BR                                                                                                         | ViTAM-915BPH<br>ViTAM-915BRH | ViTAM-916BP<br>ViTAM-916BR       | ViTAM-916BPH<br>ViTAM-916BRH | ViTAM-917BP<br>ViTAM-917BR       | ViTAM-917BPH<br>ViTAM-917BRH |
| Display type              | 15" TFT-LCD                                                                                                                        | 15" TFT-LCD                  | 15.6" TFT-LCD                    | 15.6" TFT-LCD                | 17" TFT-LCD                      | 17" TFT-LCD                  |
| Max. resolution           | 1024 x 768                                                                                                                         | 1024 x 768                   | 1366 x 768                       | 1366 x 768                   | 1280 x 1024                      | 1280 x 1024                  |
| Max. color                | 16.2M                                                                                                                              | 16.7M                        | 16.7M                            | 16.7M                        | 16.2M                            | 16.7M                        |
| Luminance(cd/m²)          | 300                                                                                                                                | 1000                         | 400                              | 1000                         | 350                              | 1000                         |
| View angle(H°/V°)         | 176/176                                                                                                                            | 176/176                      | 170/160                          | 170/130                      | 170/160                          | 160/140                      |
| Contrast                  | 2000:1                                                                                                                             | 800:1                        | 500:1                            | 800:1                        | 1000:1                           | 800:1                        |
| Backlight lifetime(hrs)   | 70000                                                                                                                              | 70000                        | 50000                            | 50000                        | 30000                            | 50000                        |
| Touch Screen              |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)                                                                  |                              |                                  |                              |                                  |                              |
| Interface                 | USB                                                                                                                                |                              |                                  |                              |                                  |                              |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                |                              |                                  |                              |                                  |                              |
| Power                     |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Power input               | 9~36V DC                                                                                                                           |                              |                                  |                              |                                  |                              |
| Power Consumption (TYP.)  | ViTAM-915BR:34W                                                                                                                    |                              | ViTAM-916BP:TBD                  |                              | ViTAM-917BR:66W                  |                              |
| Mechanical                |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Construction              | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                        |                              |                                  |                              |                                  |                              |
| IP rating                 | Total IP66/IP69K                                                                                                                   |                              |                                  |                              |                                  |                              |
| Mounting                  | VESA mount 75 x75, Yoke mount for optional                                                                                         |                              |                                  |                              |                                  |                              |
| Dimension(mm)             | 399 x 324 x 53                                                                                                                     |                              | 440 x 290 x 55                   |                              | 432 x 358 x 55                   |                              |
| Net weight(Kg)            | 6.7                                                                                                                                |                              | TBD                              |                              | TBD                              |                              |
| Environment               |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                              |                              | 0~50                             |                              |                                  |                              |
| Storage temperature(°C)   | -30~70                                                                                                                             |                              |                                  |                              |                                  |                              |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                  |                              |                                  |                              |                                  |                              |
| Certification             | CE/FCC Class A                                                                                                                     |                              |                                  |                              |                                  |                              |
| Operating System Support  |                                                                                                                                    |                              |                                  |                              |                                  |                              |
| Windows 10 IoT Enterprise |                                                                                                                                    |                              |                                  |                              |                                  |                              |

## Specifications



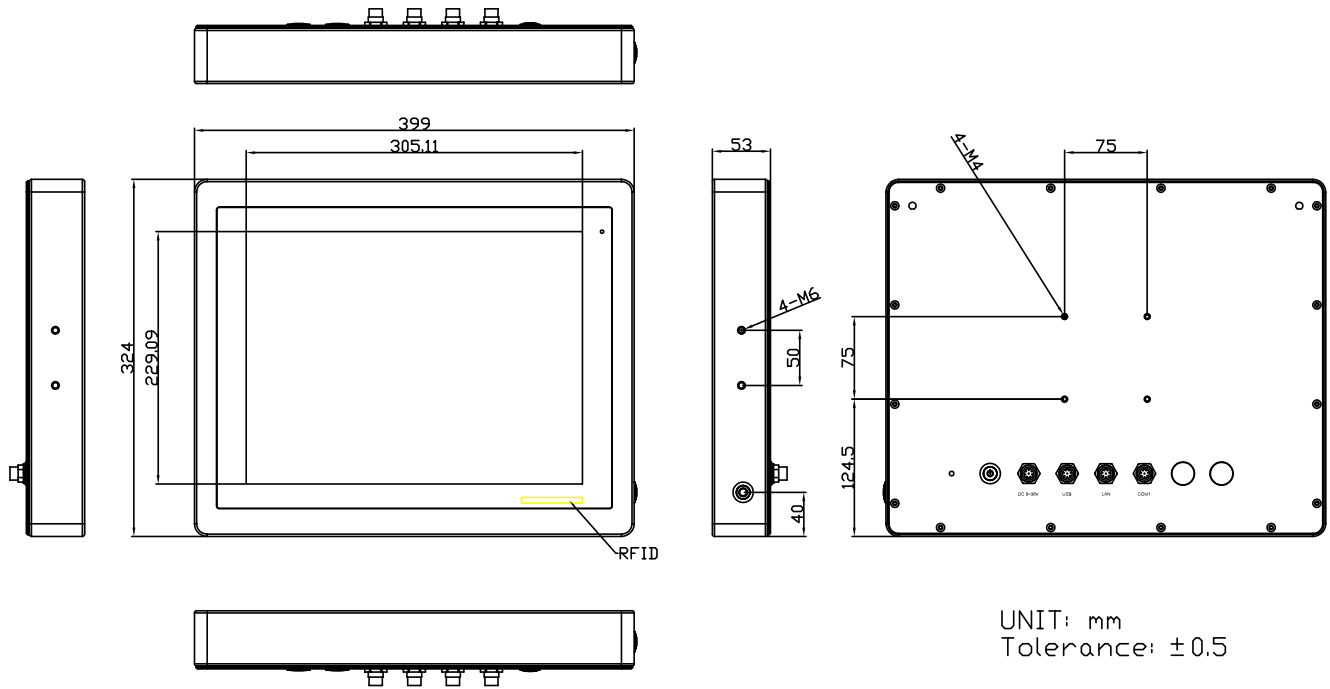
| Model Name                | ViTAM-919BP(H)<br>ViTAM-919BR(H)                                                                                                                                                           |                              | ViTAM-921BP(H)<br>ViTAM-921BR(H) |                             | ViTAM-924BP(H)                                |               |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------|-----------------------------------------------|---------------|
| System                    |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Processor                 | Onboard 8th Gen Intel Core i3/i5 Processor                                                                                                                                                 |                              |                                  |                             |                                               |               |
| System Chipset            | SoC                                                                                                                                                                                        |                              |                                  |                             |                                               |               |
| System Memory             | 2 x 260-pin SO-DIMM up to 64GB DDR4 2400MHz (option)                                                                                                                                       |                              |                                  |                             |                                               |               |
| External I/O              |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| USB                       | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                            |                              |                                  |                             |                                               |               |
| Serial/Parallel           | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover                                                                                                                  |                              |                                  |                             |                                               |               |
| LAN                       | 1 x M12 8-pin for LAN with waterproof cover                                                                                                                                                |                              |                                  |                             |                                               |               |
| Others                    | 1 x Touch on/off button at edge side                                                                                                                                                       |                              |                                  |                             |                                               |               |
| Power connector           | 1 x M12 3pin for DC Power with waterproof cover, 1 x Power Switch on the rear side                                                                                                         |                              |                                  |                             |                                               |               |
| Option                    | 2 x optional blank M12 connectors with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>1 x USB 3.2 Gen.1<br>1 x LAN(POE for option)<br>1 x COM<br>1 x CAN |                              |                                  |                             |                                               |               |
| Storage Space             |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| SSD/HDD                   | 1 x B-Key 2280 (SATA as default, PCIe select by BIOS) for SSD<br>1 x 2.5" SATA3 HDD/SSD(optional)                                                                                          |                              |                                  |                             |                                               |               |
| Expansion                 |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Expansion Slot            | 1 x Full-size mini-PCle socket (PCIe + USB) for WIFI/BT/LTE(optional)<br>1 x M.2 E-key 2230 (PCIe+USB) for optional WIFI/BT module                                                         |                              |                                  |                             |                                               |               |
| RFID Module               | RFID module design on the front side (optional)                                                                                                                                            |                              |                                  |                             |                                               |               |
| Display                   | ViTAM-919BP<br>ViTAM-919BR                                                                                                                                                                 | ViTAM-919BPH<br>ViTAM-919BRH | ViTAM-921BP<br>ViTAM-921BR       | ViTAM-921BP<br>ViTAM-921BRH | ViTAM-924BP                                   | ViTAM-924BPH  |
| Display type              | 19" TFT-LCD                                                                                                                                                                                | 19" TFT-LCD                  | 21.5" TFT-LCD                    | 21.5" TFT-LCD               | 23.8" TFT-LCD                                 | 23.8" TFT-LCD |
| Max. resolution           | 1280 x 1024                                                                                                                                                                                | 1280 x 1024                  | 1920 x 1080                      | 1920 x 1080                 | 1920 x 1080                                   | 1920 x 1080   |
| Max. color                | 16.7M                                                                                                                                                                                      | 16.7M                        | 16.7M                            | 16.7M                       | 16.7M                                         | 16.7M         |
| Luminance(cd/m²)          | 350                                                                                                                                                                                        | 1000                         | 250                              | 1000                        | 250                                           | 1000          |
| View angle(H°/V°)         | 170/160                                                                                                                                                                                    | 170/160                      | 178/178                          | 178/178                     | 178/178                                       | 178/178       |
| Contrast                  | 1000:1                                                                                                                                                                                     | 1000:1                       | 1000:1                           | 3000:1                      | 3000:1                                        | 5000:1        |
| Backlight lifetime(hrs)   | 50000                                                                                                                                                                                      | 50000                        | 50000                            | 50000                       | 30000                                         | 50000         |
| Touch Screen              |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)                                                                                                                          |                              |                                  |                             |                                               |               |
| Interface                 | USB                                                                                                                                                                                        |                              |                                  |                             |                                               |               |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                        |                              |                                  |                             |                                               |               |
| Power                     |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Power input               | 9~36V DC                                                                                                                                                                                   |                              |                                  |                             |                                               |               |
| Power Consumption (TYP.)  | ViTAM-919BR:43W                                                                                                                                                                            |                              | ViTAM-921BP:40W                  |                             | ViTAM-924BP:TBD                               |               |
| Mechanical                |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Construction              | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                                |                              |                                  |                             |                                               |               |
| IP rating                 | Total IP66/IP69K                                                                                                                                                                           |                              |                                  |                             |                                               |               |
| Mounting                  | VESA mount 100 x 100, Yoke mount for optional                                                                                                                                              |                              |                                  |                             | VESA mount 200 x 100, Yoke mount for optional |               |
| Dimension(mm)             | 470 x 388.6 x 60                                                                                                                                                                           |                              | 571 x 362 x 55                   |                             | 656 x 423 x 53                                |               |
| Net weight(Kg)            | TBD                                                                                                                                                                                        |                              | TBD                              |                             | TBD                                           |               |
| Environment               |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Operating temperature(°C) | 0 ~ 50<br>(0~40 for 21.5" high brightness model)                                                                                                                                           |                              |                                  |                             |                                               |               |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                     |                              |                                  |                             |                                               |               |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                          |                              |                                  |                             |                                               |               |
| Certification             | CE/FCC Class A                                                                                                                                                                             |                              |                                  |                             |                                               |               |
| Operating System Support  |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |
| Windows 10 IoT Enterprise |                                                                                                                                                                                            |                              |                                  |                             |                                               |               |



## ViTAM-9XXB Series

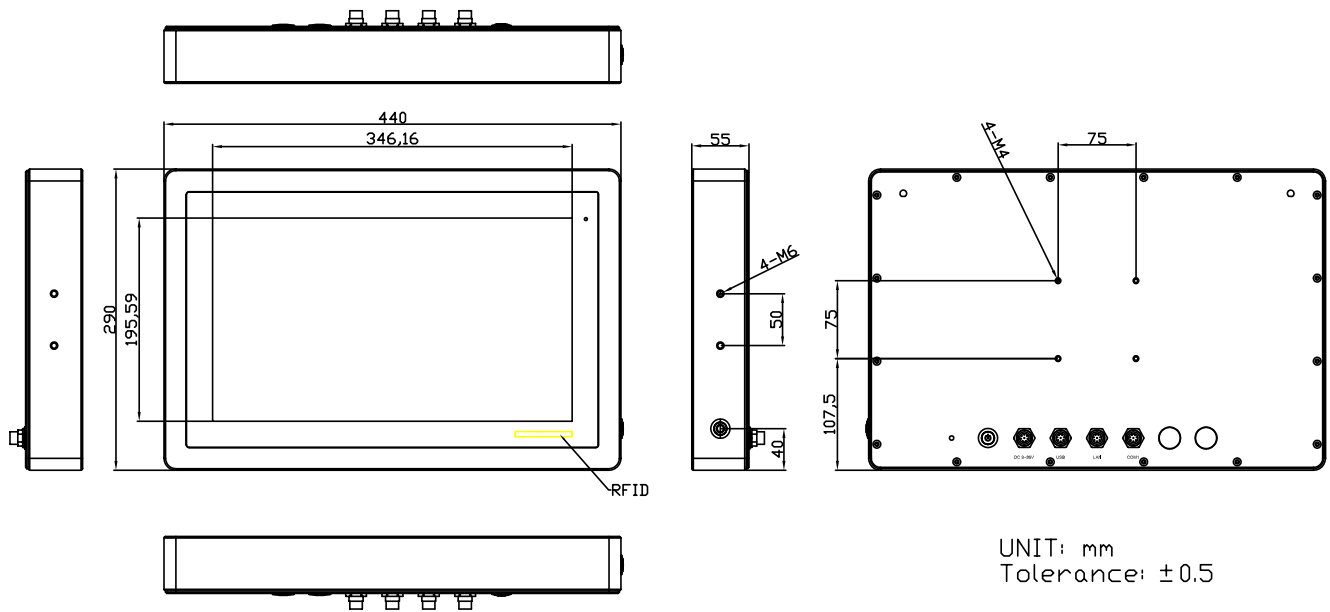
8<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

### ViTAM-915B P/R(H)



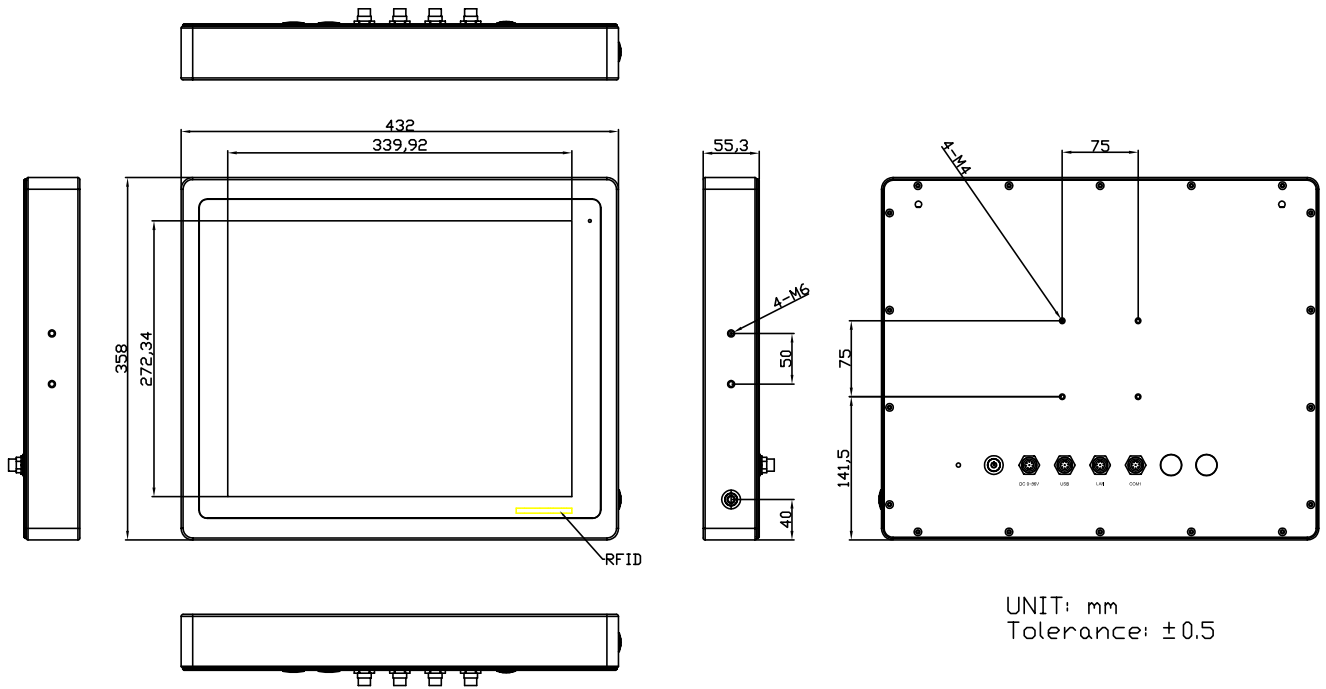
unit:mm

### ViTAM-916B P/R(H)



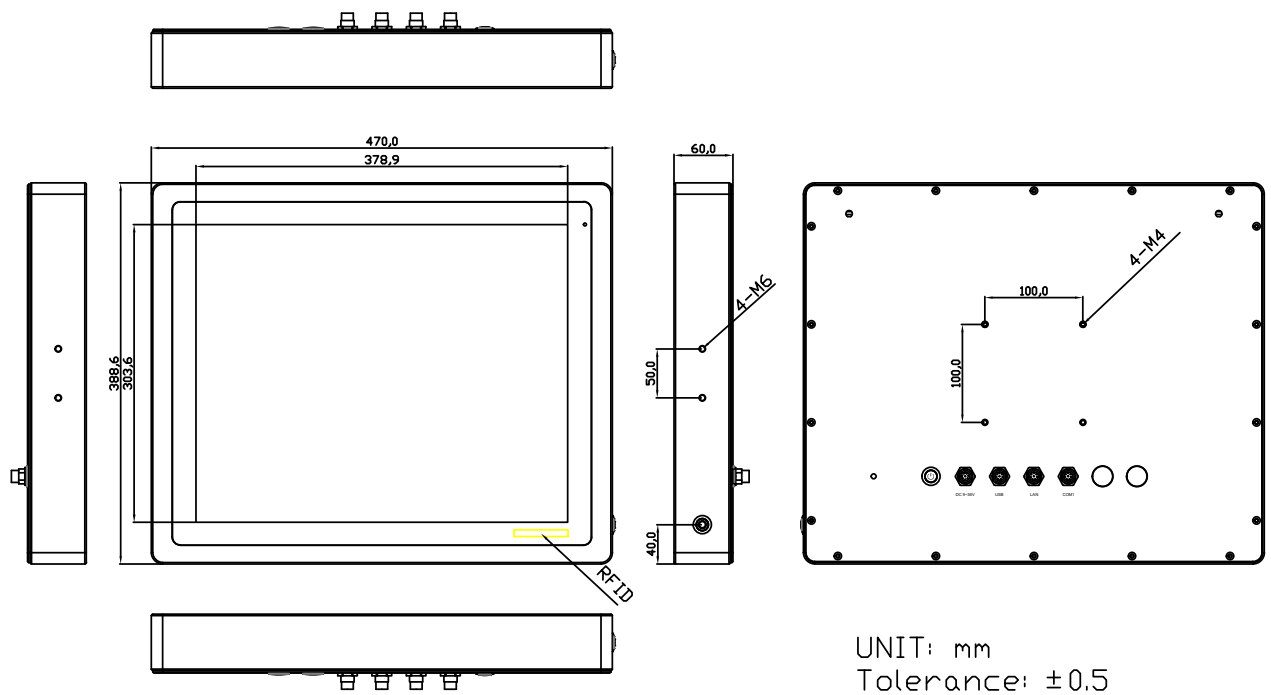
unit:mm

## ViTAM-917B P/R(H)



unit:mm

## ViTAM-919B P/R(H)

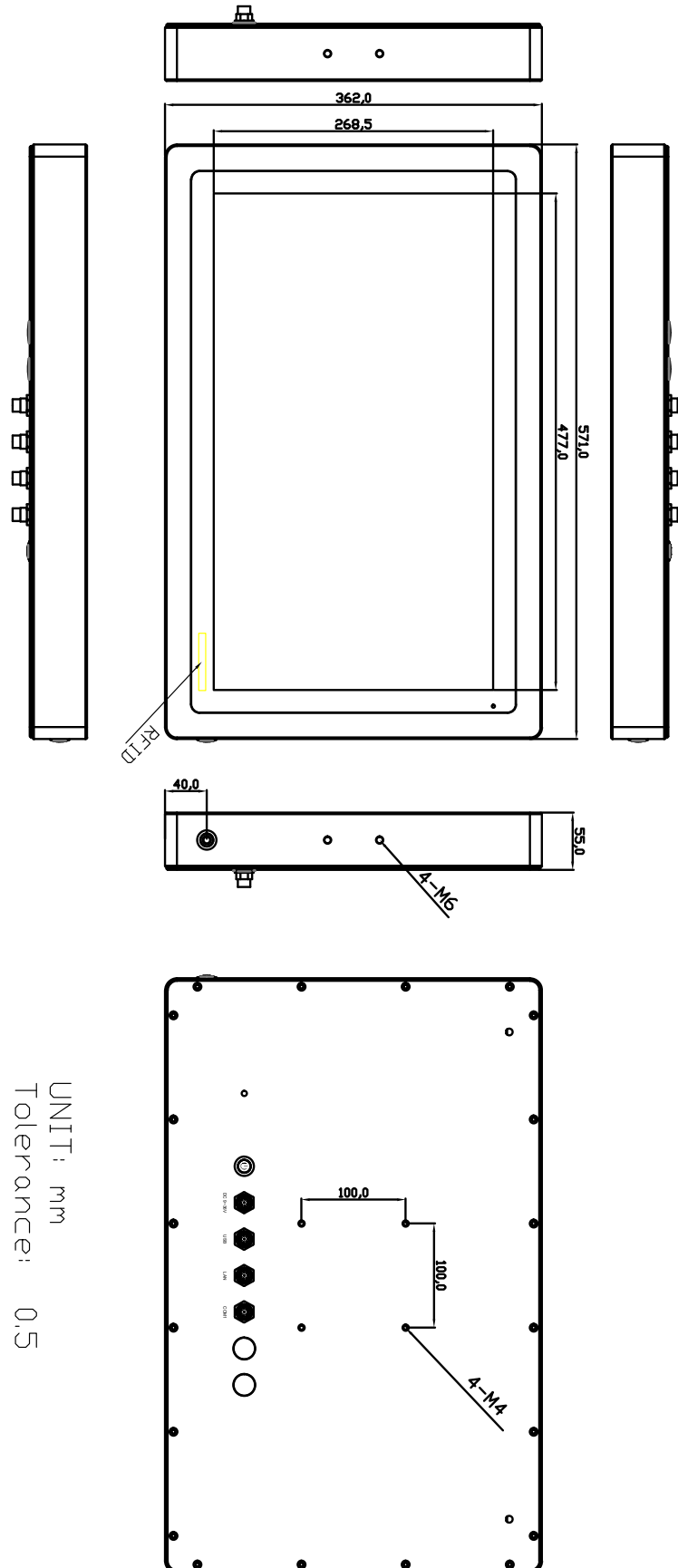


unit:mm

# ViTAM-9XXB Series

8<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

## ViTAM-921B P/R(H)

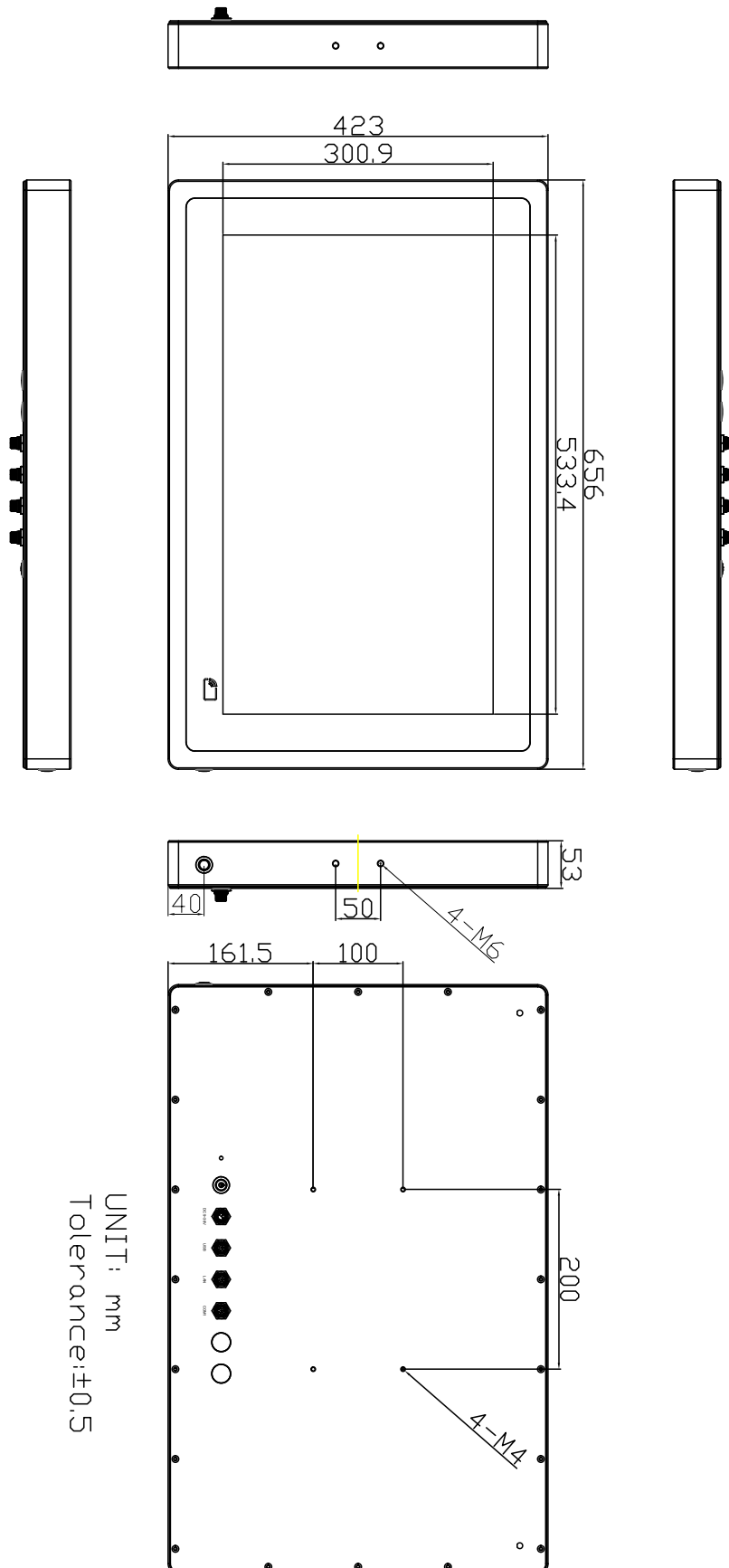


UNIT: mm  
Tolerance: 0.5

unit:mm



ViTAM-924B P/R(H)



unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-915BP</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                  |
| <b>ViTAM-915BR</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter               |
| <b>ViTAM-915BPH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits       |
| <b>ViTAM-915BRH</b> | 15.6" XGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits  |
| <b>ViTAM-916BP</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter               |
| <b>ViTAM-916BR</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter            |
| <b>ViTAM-916BPH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits    |
| <b>ViTAM-916BRH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits |
| <b>ViTAM-917BP</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                 |
| <b>ViTAM-917BR</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter              |
| <b>ViTAM-917BPH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits      |
| <b>ViTAM-917BRH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits   |
| <b>ViTAM-919BP</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                  |
| <b>ViTAM-919BR</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter              |
| <b>ViTAM-919BPH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits      |
| <b>ViTAM-919BRH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits   |
| <b>ViTAM-921BP</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                |
| <b>ViTAM-921BR</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter             |
| <b>ViTAM-921BPH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits     |
| <b>ViTAM-921BRH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits  |
| <b>ViTAM-924BP</b>  | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                |
| <b>ViTAM-924BPH</b> | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 8th Gen. Core i Processor, 2 x SO-DIMM DDR4 slots, 128GB TLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits     |

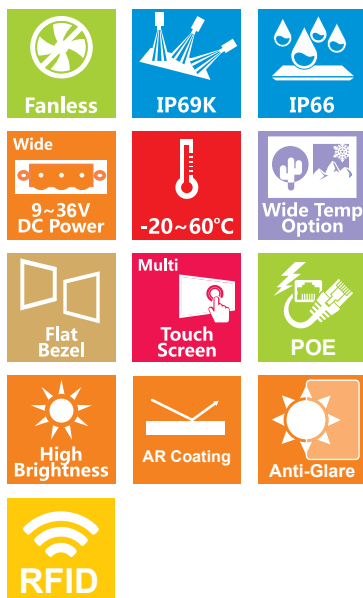


# ViTAM-9XXA Series

IP66/IP69K Waterproof

6<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

- 6<sup>th</sup> Gen. Intel® Core™ Processor
- 1 x SO-DIMM DDR4 Slot up to 16GB
- Fanless Design
- Touch on/off button on the side
- RFID module design on the front side(optional)



Support Resistive Touch, Projected Capacitive Touch, and Glass



Touch on/off Button on the Side Edge for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors



Support Ergonomic Versatile Mounting Space-saving VESA Mounting



Support Wide-Range Temperature -20°~60°C





# ViTAM-9XXA Series

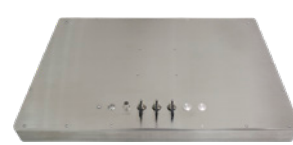
6<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC



## Specifications

| Model Name                                                              | ViTAM-915AP(H)<br>ViTAM-915AR(H)<br>ViTAM-915AG(H)                                                                                                                                                    |                                              | ViTAM-916AP(H)<br>ViTAM-916AR(H)<br>ViTAM-916AG(H) |                                              | ViTAM-917AP(H)<br>ViTAM-917AR(H)<br>ViTAM-917AG(H) |                                              |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------|
| System                                                                  |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Processor                                                               | Onboard 6th Gen Intel Core i3/i5 Processor                                                                                                                                                            |                                              |                                                    |                                              |                                                    |                                              |
| System Chipset                                                          | SoC                                                                                                                                                                                                   |                                              |                                                    |                                              |                                                    |                                              |
| System Memory                                                           | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                                                                           |                                              |                                                    |                                              |                                                    |                                              |
| External I/O                                                            |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| USB                                                                     | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Serial/Parallel                                                         | 1 x M12 8-pin for COM1, RS-232/422/485, Default RS-232, with waterproof cover                                                                                                                         |                                              |                                                    |                                              |                                                    |                                              |
| LAN                                                                     | 1 x M12 8pin for LAN with waterproof cover                                                                                                                                                            |                                              |                                                    |                                              |                                                    |                                              |
| Others                                                                  | 1 x Touch on/off button at edge side                                                                                                                                                                  |                                              |                                                    |                                              |                                                    |                                              |
| Power connector                                                         | 1 x M12 3pin for DC Power with waterproof cover and chain, 1 x Power Switch on the rear side                                                                                                          |                                              |                                                    |                                              |                                                    |                                              |
| Option                                                                  | 2 x optional blank M12 connectors with waterproof cover and chain for selecting two from the following options:<br>2 x USB 2.0<br>1 x USB 3.2 Gen.1<br>1 x LAN (POE for option)<br>1 x COM<br>1 x CAN |                                              |                                                    |                                              |                                                    |                                              |
| Storage Space                                                           |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| SSD/HDD                                                                 | 1 x 2.5" SATA3 HDD/SSD                                                                                                                                                                                |                                              |                                                    |                                              |                                                    |                                              |
| Expansion                                                               |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Expansion Slot                                                          | 1 x Full-size mini-PCle socket (PCle + USB) for WIFI/BT/LTE(optional)                                                                                                                                 |                                              |                                                    |                                              |                                                    |                                              |
| RFID Module                                                             | RFID module design on the front side(optional)                                                                                                                                                        |                                              |                                                    |                                              |                                                    |                                              |
| Display                                                                 | ViTAM-915AP<br>ViTAM-915AR<br>ViTAM-915AG                                                                                                                                                             | ViTAM-915APH<br>ViTAM-915ARH<br>ViTAM-915AGH | ViTAM-916AP<br>ViTAM-916AR<br>ViTAM-916AG          | ViTAM-916APH<br>ViTAM-916ARH<br>ViTAM-916AGH | ViTAM-917AP<br>ViTAM-917AR<br>ViTAM-917AG          | ViTAM-917APH<br>ViTAM-917ARH<br>ViTAM-917AGH |
| Display type                                                            | 15" TFT-LCD                                                                                                                                                                                           | 15" TFT-LCD                                  | 15.6" TFT-LCD                                      | 15.6" TFT-LCD                                | 17" TFT-LCD                                        | 17" TFT-LCD                                  |
| Max. resolution                                                         | 1024 x 768                                                                                                                                                                                            | 1024 x 768                                   | 1366 x 768                                         | 1366 x 768                                   | 1280 x 1024                                        | 1280 x 1024                                  |
| Max. color                                                              | 16.2M                                                                                                                                                                                                 | 16.7M                                        | 16.7M                                              | 16.7M                                        | 16.2M                                              | 16.7M                                        |
| Luminance(cd/m²)                                                        | 300                                                                                                                                                                                                   | 1000                                         | 400                                                | 1000                                         | 350                                                | 1000                                         |
| View angle(H°/V°)                                                       | 176/176                                                                                                                                                                                               | 176/176                                      | 170/160                                            | 170/130                                      | 170/160                                            | 160/140                                      |
| Contrast                                                                | 2000:1                                                                                                                                                                                                | 3000:1                                       | 500:1                                              | 800:1                                        | 1000:1                                             | 800:1                                        |
| Backlight lifetime(hrs)                                                 | 70000                                                                                                                                                                                                 | 70000                                        | 50000                                              | 50000                                        | 30000                                              | 50000                                        |
| Touch Screen                                                            |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Type                                                                    | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model)                                                                                                               |                                              |                                                    |                                              |                                                    |                                              |
| Interface                                                               | USB                                                                                                                                                                                                   |                                              |                                                    |                                              |                                                    |                                              |
| Light transmission(%)                                                   | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                                   |                                              |                                                    |                                              |                                                    |                                              |
| Power                                                                   |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Power input                                                             | 9~36V DC                                                                                                                                                                                              |                                              |                                                    |                                              |                                                    |                                              |
| Power Consumption (TYP.)                                                | ViTAM-915AP:35W                                                                                                                                                                                       |                                              | ViTAM-916AP:49W                                    |                                              | ViTAM-917AP:49W                                    |                                              |
| Mechanical                                                              |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Construction                                                            | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                                           |                                              |                                                    |                                              |                                                    |                                              |
| IP rating                                                               | Total IP66/IP69K                                                                                                                                                                                      |                                              |                                                    |                                              |                                                    |                                              |
| Mounting                                                                | VESA mount 75 x75, Yoke mount for optional                                                                                                                                                            |                                              |                                                    |                                              |                                                    |                                              |
| Dimension(mm)                                                           | 399 x 324 x 53                                                                                                                                                                                        |                                              | 440 x 290 x 55                                     |                                              | 432 x 358 x 55                                     |                                              |
| Net weight(Kg)                                                          | 7.1                                                                                                                                                                                                   |                                              | 7                                                  |                                              | 8.2                                                |                                              |
| Environment                                                             |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Operating temperature(°C)                                               | 0 ~ 50/-20~60(option)                                                                                                                                                                                 |                                              | 0~50                                               |                                              |                                                    |                                              |
| Storage temperature(°C)                                                 | -30~70                                                                                                                                                                                                |                                              |                                                    |                                              |                                                    |                                              |
| Humidity                                                                | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                     |                                              |                                                    |                                              |                                                    |                                              |
| Certification                                                           | CE/FCC Class A                                                                                                                                                                                        |                                              |                                                    |                                              |                                                    |                                              |
| Operating System Support                                                |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT Enterprise |                                                                                                                                                                                                       |                                              |                                                    |                                              |                                                    |                                              |

## Specifications

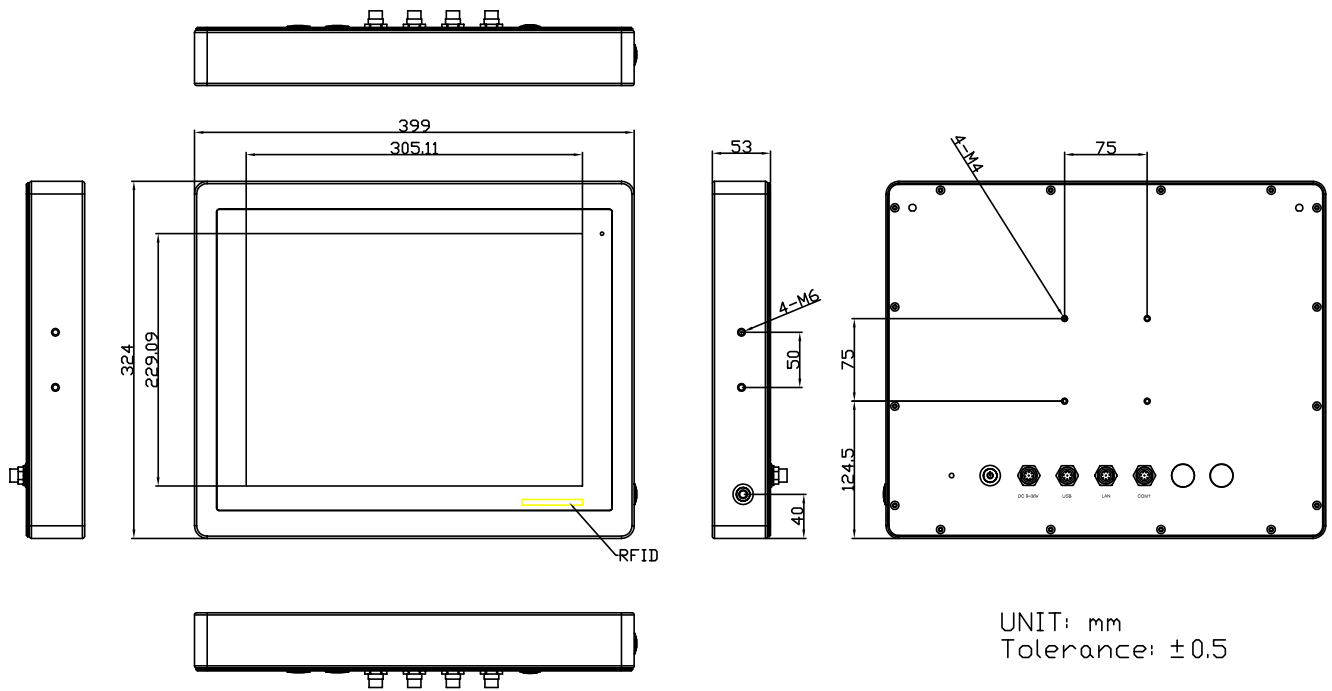


| Model Name                                                              | ViTAM-919AP(H)<br>ViTAM-919AR(H)<br>ViTAM-919AG(H)                                      |                                                                                                                                                                                                       | ViTAM-921AP(H)<br>ViTAM-921AR(H)<br>ViTAM-921AG(H) |                                              | ViTAM-924AP(H)<br>ViTAM-924AG(H)              |                              |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------|-----------------------------------------------|------------------------------|
| System                                                                  |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Processor                                                               |                                                                                         | Onboard 6th Gen Intel Core i3/i5 Processor                                                                                                                                                            |                                                    |                                              |                                               |                              |
| System Chipset                                                          |                                                                                         | SoC                                                                                                                                                                                                   |                                                    |                                              |                                               |                              |
| System Memory                                                           |                                                                                         | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                                                                           |                                                    |                                              |                                               |                              |
| External I/O                                                            |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| USB                                                                     |                                                                                         | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Serial/Parallel                                                         |                                                                                         | 1 x M12 8-pin for COM1, RS-232/422/485, Default RS-232, with waterproof cover                                                                                                                         |                                                    |                                              |                                               |                              |
| LAN                                                                     |                                                                                         | 1 x M12 8pin for LAN with waterproof cover                                                                                                                                                            |                                                    |                                              |                                               |                              |
| Others                                                                  |                                                                                         | 1 x Touch on/off button at edge side                                                                                                                                                                  |                                                    |                                              |                                               |                              |
| Power connector                                                         |                                                                                         | 1 x M12 3pin for DC Power with waterproof cover and chain, 1 x Power Switch on the rear side                                                                                                          |                                                    |                                              |                                               |                              |
| Option                                                                  |                                                                                         | 2 x optional blank M12 connectors with waterproof cover and chain for selecting two from the following options:<br>2 x USB 2.0<br>1 x USB 3.2 Gen.1<br>1 x LAN (POE for option)<br>1 x COM<br>1 x CAN |                                                    |                                              |                                               |                              |
| Storage Space                                                           |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| SSD/HDD                                                                 |                                                                                         | 1 x 2.5" SATA3 HDD/SSD                                                                                                                                                                                |                                                    |                                              |                                               |                              |
| Expansion                                                               |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Expansion Slot                                                          |                                                                                         | 1 x Full-size mini-PCIe socket (PCIe + USB) for WIFI/BT/LTE(optional)                                                                                                                                 |                                                    |                                              |                                               |                              |
| RFID Module                                                             |                                                                                         | RFID module design on the front side (optional)                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Display                                                                 | ViTAM-919AP<br>ViTAM-919AR<br>ViTAM-919AG                                               | ViTAM-919APH<br>ViTAM-919ARH<br>ViTAM-919AGH                                                                                                                                                          | ViTAM-921AP<br>ViTAM-921AR<br>ViTAM-921AG          | ViTAM-921APH<br>ViTAM-921ARH<br>ViTAM-921AGH | ViTAM-924AP<br>ViTAM-924AG                    | ViTAM-924APH<br>ViTAM-924AGH |
| Display type                                                            | 19" TFT-LCD                                                                             | 19" TFT-LCD                                                                                                                                                                                           | 21.5" TFT-LCD                                      | 21.5" TFT-LCD                                | 23.8" TFT-LCD                                 | 23.8" TFT-LCD                |
| Max. resolution                                                         | 1280 x 1024                                                                             | 1280 x 1024                                                                                                                                                                                           | 1920 x 1080                                        | 1920 x 1080                                  | 1920 x 1080                                   | 1920 x 1080                  |
| Max. color                                                              | 16.7M                                                                                   | 16.7M                                                                                                                                                                                                 | 16.7M                                              | 16.7M                                        | 16.7M                                         | 16.7M                        |
| Luminance(cd/m²)                                                        | 350                                                                                     | 1000                                                                                                                                                                                                  | 250                                                | 1000                                         | 250                                           | 1000                         |
| View angle(H°/V°)                                                       | 170/160                                                                                 | 170/160                                                                                                                                                                                               | 178/178                                            | 178/178                                      | 178/178                                       | 178/178                      |
| Contrast                                                                | 1000:1                                                                                  | 1000:1                                                                                                                                                                                                | 3000:1                                             | 3000:1                                       | 3000:1                                        | 5000:1                       |
| Backlight lifetime(hrs)                                                 | 50000                                                                                   | 50000                                                                                                                                                                                                 | 30000                                              | 50000                                        | 30000                                         | 50000                        |
| Touch Screen                                                            |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Type                                                                    | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Interface                                                               |                                                                                         | USB                                                                                                                                                                                                   |                                                    |                                              |                                               |                              |
| Light transmission(%)                                                   |                                                                                         | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                                   |                                                    |                                              |                                               |                              |
| Power                                                                   |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Power input                                                             |                                                                                         | 9~36V DC                                                                                                                                                                                              |                                                    |                                              |                                               |                              |
| Power Consumption (TYP.)                                                |                                                                                         | ViTAM-919AP:49W                                                                                                                                                                                       |                                                    | ViTAM-921AP:43W                              |                                               | ViTAM-924AP:53W              |
| Mechanical                                                              |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Construction                                                            |                                                                                         | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                                           |                                                    |                                              |                                               |                              |
| IP rating                                                               |                                                                                         | Total IP66/IP69K                                                                                                                                                                                      |                                                    |                                              |                                               |                              |
| Mounting                                                                |                                                                                         | VESA mount 100 x 100, Yoke mount for optional                                                                                                                                                         |                                                    |                                              | VESA mount 200 x 100, Yoke mount for optional |                              |
| Dimension(mm)                                                           |                                                                                         | 470 x 388.6 x 60                                                                                                                                                                                      |                                                    | 571 x 362 x 55                               |                                               | 656 x 423 x 53               |
| Net weight(Kg)                                                          |                                                                                         | 9.5                                                                                                                                                                                                   |                                                    | 10.0                                         |                                               | 12.6                         |
| Environment                                                             |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Operating temperature(°C)                                               |                                                                                         | 0 ~ 50<br>(0~40 for 21.5" high brightness model)                                                                                                                                                      |                                                    |                                              |                                               |                              |
| Storage temperature(°C)                                                 |                                                                                         | -30~70                                                                                                                                                                                                |                                                    |                                              |                                               |                              |
| Humidity                                                                |                                                                                         | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                     |                                                    |                                              |                                               |                              |
| Certification                                                           |                                                                                         | CE/FCC Class A                                                                                                                                                                                        |                                                    |                                              |                                               |                              |
| Operating System Support                                                |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT Enterprise |                                                                                         |                                                                                                                                                                                                       |                                                    |                                              |                                               |                              |

## ViTAM-9XXA Series

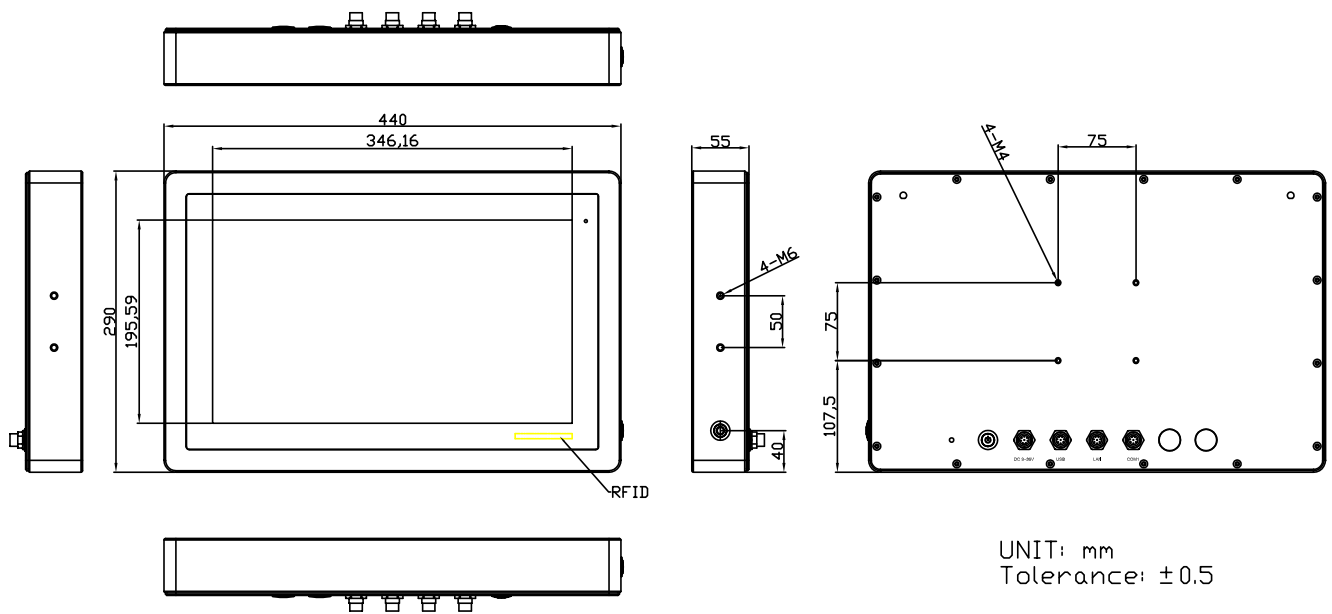
6<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

### ViTAM-915A P/R/G(H)



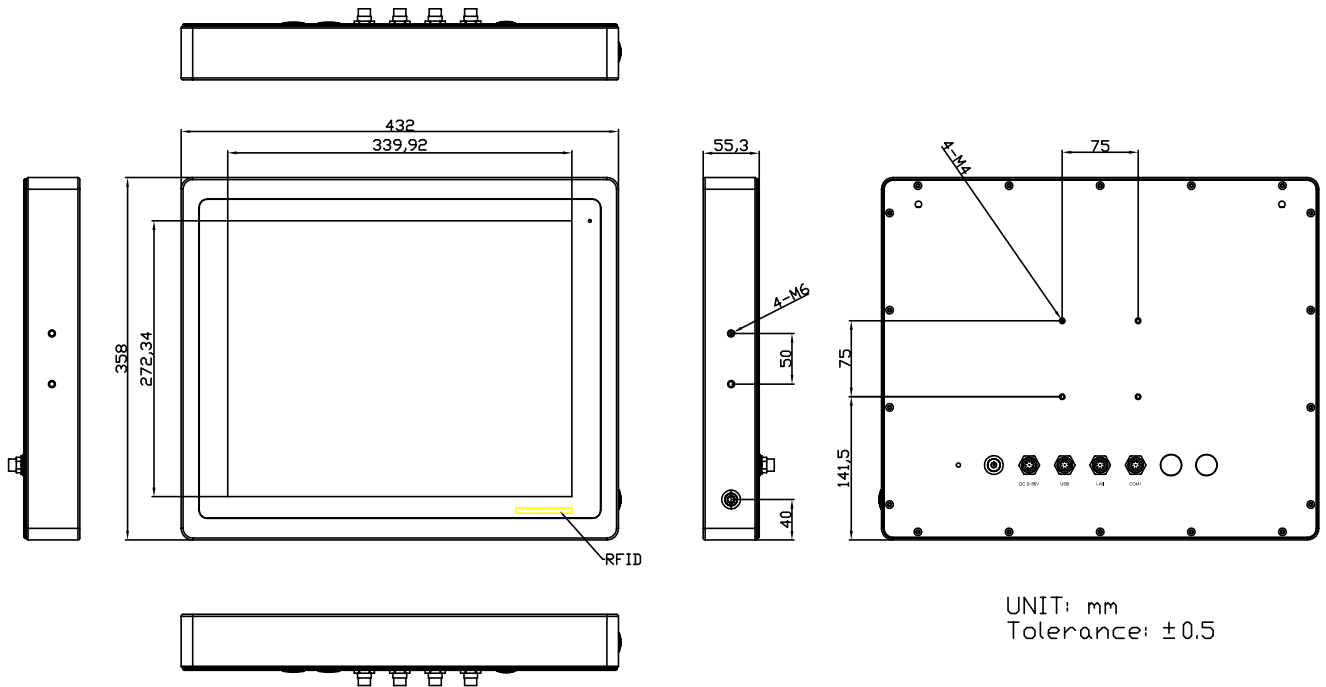
unit:mm

### ViTAM-916A P/R/G(H)



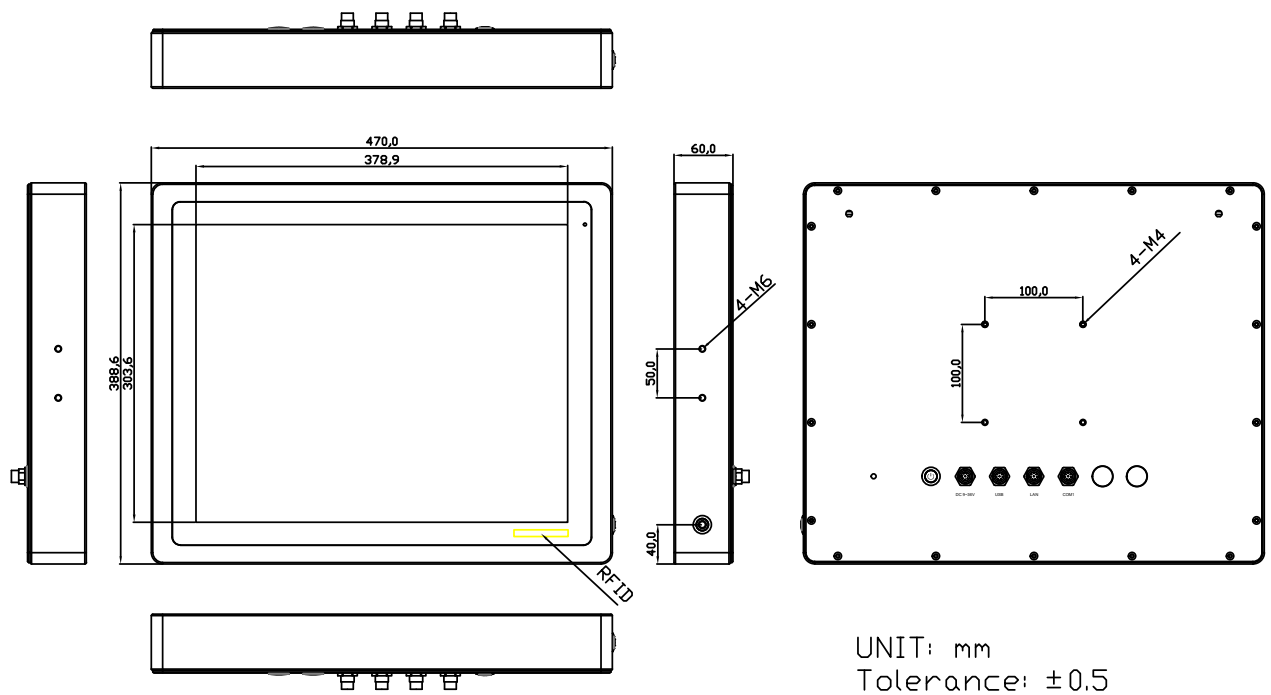
unit:mm

## ViTAM-917A P/R/G(H)



unit:mm

## ViTAM-919A P/R/G(H)

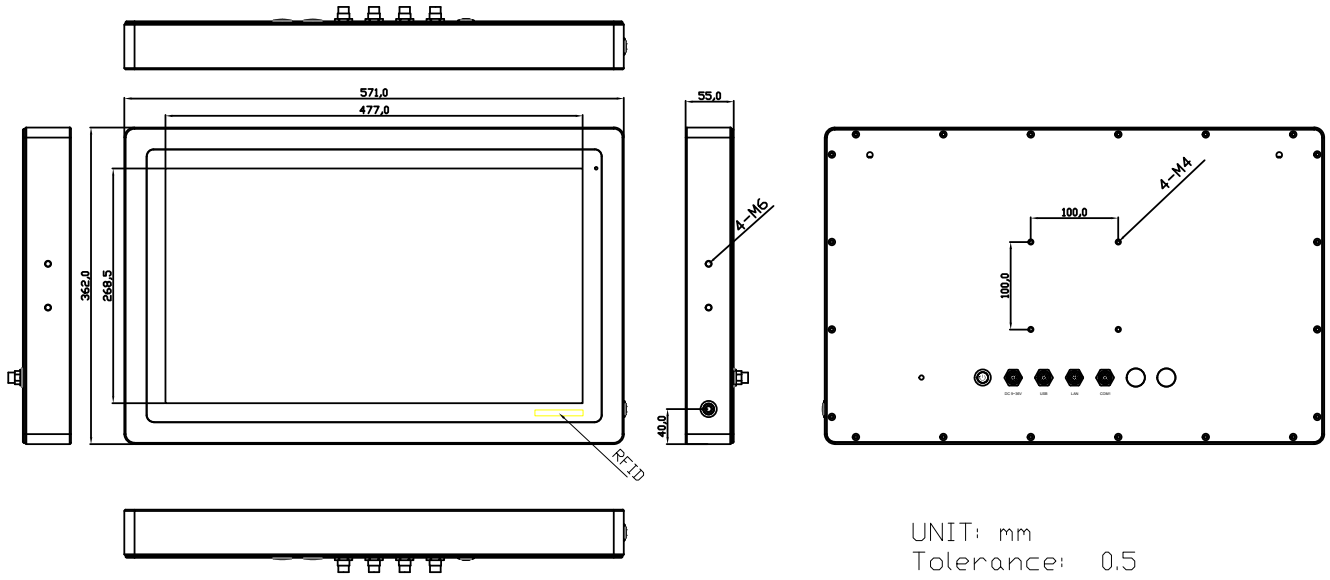


unit:mm



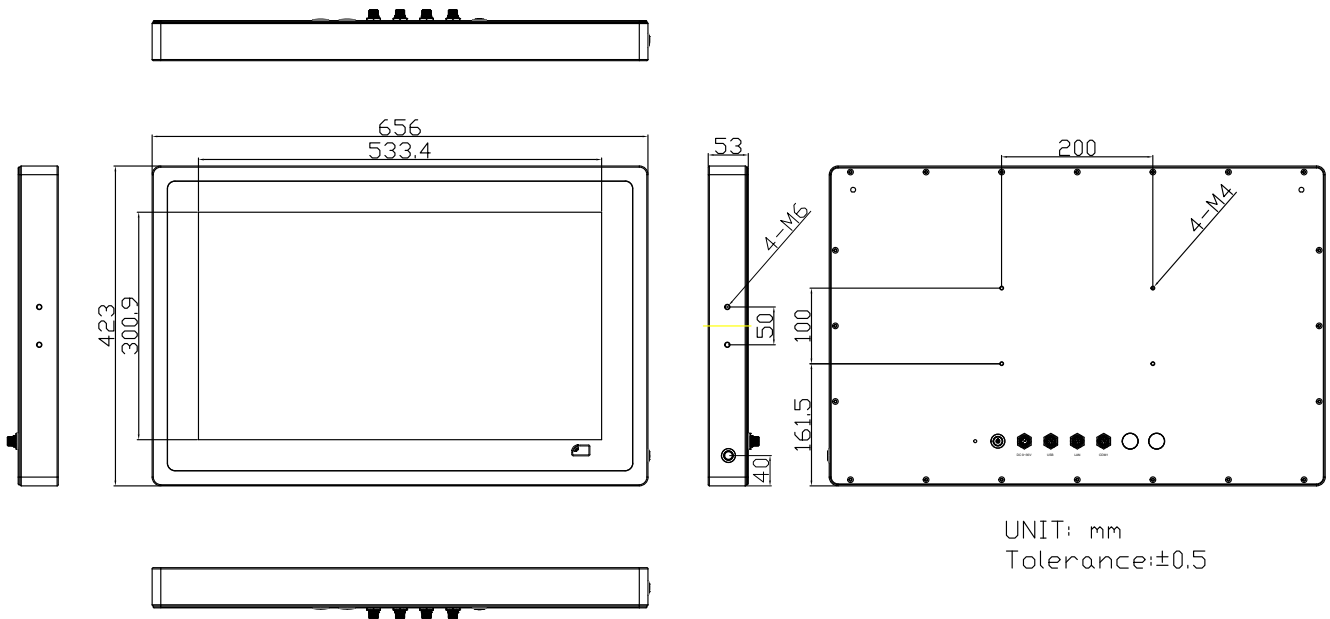
6<sup>th</sup> Gen. Intel® Core™ i3/i5 Panel PC

# ViTAM-921A P/R/G(H)



unit:mm

## ViTAM-924A P/R/G(H)



unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-915AP</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                  |
| <b>ViTAM-915AR</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter               |
| <b>ViTAM-915AG</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                            |
| <b>ViTAM-915APH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits       |
| <b>ViTAM-915ARH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits    |
| <b>ViTAM-915AGH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits                 |
| <b>ViTAM-916AP</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter               |
| <b>ViTAM-916AR</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter            |
| <b>ViTAM-916AG</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                         |
| <b>ViTAM-916APH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits    |
| <b>ViTAM-916ARH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits |
| <b>ViTAM-916AGH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits              |
| <b>ViTAM-917AP</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                 |
| <b>ViTAM-917AR</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter              |
| <b>ViTAM-917AG</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                           |
| <b>ViTAM-917APH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits      |
| <b>ViTAM-917ARH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits   |
| <b>ViTAM-917AGH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits                |
| <b>ViTAM-919AP</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                            |
| <b>ViTAM-919AR</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter              |
| <b>ViTAM-919AG</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                 |
| <b>ViTAM-919APH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits      |
| <b>ViTAM-919ARH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits   |
| <b>ViTAM-919AGH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits                |
| <b>ViTAM-921AP</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                |
| <b>ViTAM-921AR</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter             |
| <b>ViTAM-921AG</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                          |
| <b>ViTAM-921APH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits     |
| <b>ViTAM-921ARH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1000 nits  |
| <b>ViTAM-921AGH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits               |
| <b>ViTAM-924AP</b>  | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                |
| <b>ViTAM-924AG</b>  | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                          |
| <b>ViTAM-924APH</b> | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1000 nits     |
| <b>ViTAM-924AGH</b> | 23.8" FHD IP66/IP69K stainless steel panel pc, Intel 6th Gen. Core i Processor, 1 x SO-DIMM DDR4 slot, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1000 nits               |



# ViTAM-8XX Series

IP66/IP69K Waterproof

Low Power Consumption Intel® N2930 Panel PC

- Onboard Intel Celeron N2930 Processor
- Onboard 4GB/8GB DDR3L
- Fanless Design
- Touch on/off button on the side
- RFID module design on the front side(optional)



Support Resistive Touch, Projected Capacitive Touch, and Glass



Touch on/off Button on the Side Edge for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors



Support Ergonomic Versatile Mounting Space-saving VESA Mounting



Support Wide-Range Temperature -20°~60°C



## Specifications



| Model Name                                                              | ViTAM-810P(H)<br>ViTAM-810R(H)<br>ViTAM-810G(H)                                                                                                                                        |                                           | ViTAM-812P(H)<br>ViTAM-812R(H)<br>ViTAM-812G(H) |                                           |                                        |                                           | ViTAM-815P(H)<br>ViTAM-815R(H)<br>ViTAM-815G(H) |             |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------------|-------------|
| System                                                                  |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Processor                                                               | Onboard Intel Celeron N2930(1.83GHz) Processor                                                                                                                                         |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| System Chipset                                                          | SoC                                                                                                                                                                                    |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| System Memory                                                           | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                                                                                                                            |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| External I/O                                                            |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| USB                                                                     | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Serial/Parallel                                                         | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover                                                                                                              |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| LAN                                                                     | 1 x M12 8pin for LAN with waterproof cover                                                                                                                                             |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Others                                                                  | 1 x Touch on/off button at edge side                                                                                                                                                   |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Power connector                                                         | 1 x M12 3-pin for DC power with waterproof cover<br>1 x Power switch on the rear side                                                                                                  |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Option                                                                  | 2 x optional blank M12 connector with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>USB 3.2 Gen.1<br>1 x LAN (POE for option)<br>1 x COM<br>1 x CAN |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Storage Space                                                           |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| SSD/HDD                                                                 | 1 x 2.5" SATA3 HDD/SSD                                                                                                                                                                 |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Expansion                                                               |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Expansion Slot                                                          | 1 x Full-size mini-PCle socket (PCle + USB) for WIFI/BT/LTE(optional)                                                                                                                  |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| RFID Module                                                             | RFID module design on the front side (optional)                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Display                                                                 | ViTAM-810P<br>ViTAM-810R<br>ViTAM-810G                                                                                                                                                 | ViTAM-810PH<br>ViTAM-810RH<br>ViTAM-810GH | ViTAM-812P<br>ViTAM-812R<br>ViTAM-812G          | ViTAM-812PH<br>ViTAM-812RH<br>ViTAM-812GH | ViTAM-815P<br>ViTAM-815R<br>ViTAM-815G | ViTAM-815PH<br>ViTAM-815RH<br>ViTAM-815GH |                                                 |             |
| Display type                                                            | 10.1" TFT-LCD                                                                                                                                                                          | 10.1" TFT-LCD                             | 12.1" TFT-LCD                                   |                                           |                                        | 15" TFT-LCD                               |                                                 | 15" TFT-LCD |
| Max. resolution                                                         | 1280 x 800                                                                                                                                                                             | 1280 x 800                                | 800 x 600                                       | 1024 x 768                                | 800 x 600                              | 1024 x 768                                | 1024 x 768                                      | 1024 x 768  |
| Max. color                                                              | 16.7M                                                                                                                                                                                  | 16.2M                                     | 16.2M                                           | 16.2M                                     | 16.2M                                  | 16.2M                                     | 16.2M                                           | 16.7M       |
| Luminance(cd/m²)                                                        | 350                                                                                                                                                                                    | 1000                                      | 450                                             | 500                                       | 1000                                   | 1000                                      | 300                                             | 1000        |
| View angle(H°/V°)                                                       | 170/170                                                                                                                                                                                | 170/170                                   | 178/178                                         | 178/178                                   | 178/178                                | 178/178                                   | 176/176                                         | 176/176     |
| Contrast                                                                | 800:1                                                                                                                                                                                  | 1300:1                                    | 1500:1                                          | 1500:1                                    | 700:1                                  | 1000:1                                    | 2000:1                                          | 3000:1      |
| Backlight lifetime(hrs)                                                 | 30000                                                                                                                                                                                  | 50000                                     | 50000                                           | 30000                                     | 50000                                  | 70000                                     | 70000                                           | 70000       |
| Touch Screen                                                            |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Type                                                                    | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model)                                                                                                |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Interface                                                               | USB                                                                                                                                                                                    |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Light transmission(%)                                                   | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                    |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Power                                                                   |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Power input                                                             | DC 9~36V                                                                                                                                                                               |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Power Consumption (TYP.)                                                | ViTAM-810P:17W                                                                                                                                                                         |                                           | ViTAM-812P:21W                                  |                                           |                                        | ViTAM-815P:19W                            |                                                 |             |
| Mechanical                                                              |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Construction                                                            | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                            |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| IP rating                                                               | Total IP66/IP69K                                                                                                                                                                       |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Mounting                                                                | VESA mount 75 x75, Yoke mount for optional                                                                                                                                             |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Dimension(mm)                                                           | 300 x 220 x 53                                                                                                                                                                         |                                           | 335 x 265 x 53                                  |                                           |                                        | 399 x 324 x 53                            |                                                 |             |
| Net weight(Kg)                                                          | 4.0                                                                                                                                                                                    |                                           | 5.0                                             |                                           |                                        | 7.4                                       |                                                 |             |
| Environment                                                             |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Operating temperature(°C)                                               | 0 ~ 50/-20~60(option)                                                                                                                                                                  |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Storage temperature(°C)                                                 | -30~70                                                                                                                                                                                 |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Humidity                                                                | 10 to 95% @ 40°C, non- condensing                                                                                                                                                      |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Certification                                                           | CE/FCC Class A                                                                                                                                                                         |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Operating System Support                                                |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT Enterprise |                                                                                                                                                                                        |                                           |                                                 |                                           |                                        |                                           |                                                 |             |



# ViTAM-8XX Series

Low Power Consumption Intel® N2930 Panel PC



## Specifications

| Model Name                                                              | ViTAM-816P(H)<br>ViTAM-816R(H)<br>ViTAM-816G(H)                                                                                                                                        |                                           | ViTAM-817P(H)<br>ViTAM-817R(H)<br>ViTAM-817G(H) |                                           | ViTAM-819P(H)<br>ViTAM-819R(H)<br>ViTAM-819G(H) |                                           |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|
| System                                                                  |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Processor                                                               | Onboard Intel Celeron N2930(1.83GHz) Processor                                                                                                                                         |                                           |                                                 |                                           |                                                 |                                           |
| System Chipset                                                          | SoC                                                                                                                                                                                    |                                           |                                                 |                                           |                                                 |                                           |
| System Memory                                                           | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                                                                                                                            |                                           |                                                 |                                           |                                                 |                                           |
| External I/O                                                            |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| USB                                                                     | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Serial/Parallel                                                         | 1 x M12 8-pin for COM1, RS-232/422/485, Default RS-232, with waterproof cover                                                                                                          |                                           |                                                 |                                           |                                                 |                                           |
| LAN                                                                     | 1 x M12 8pin for LAN with waterproof cover                                                                                                                                             |                                           |                                                 |                                           |                                                 |                                           |
| Others                                                                  | 1 x Touch on/off button at edge side                                                                                                                                                   |                                           |                                                 |                                           |                                                 |                                           |
| Power connector                                                         | 1 x M12 3pin for DC Power with waterproof cover<br>1 x Power Switch on the rear side                                                                                                   |                                           |                                                 |                                           |                                                 |                                           |
| Option                                                                  | 2 x optional blank M12 connector with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>USB 3.2 Gen.1<br>1 x LAN (POE for option)<br>1 x COM<br>1 x CAN |                                           |                                                 |                                           |                                                 |                                           |
| Storage Space                                                           |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| SSD/HDD                                                                 | 1 x 2.5" SATA3 HDD/SSD                                                                                                                                                                 |                                           |                                                 |                                           |                                                 |                                           |
| Expansion                                                               |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Expansion Slot                                                          | 1 x Full-size mini-PCle socket (PCle + USB) for WIFI/BT/LTE(optional)                                                                                                                  |                                           |                                                 |                                           |                                                 |                                           |
| RFID Module                                                             | RFID module design on the front side (optional)                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Display                                                                 | ViTAM-816P<br>ViTAM-816R<br>ViTAM-816G                                                                                                                                                 | ViTAM-816PH<br>ViTAM-816RH<br>ViTAM-816GH | ViTAM-817P<br>ViTAM-817R<br>ViTAM-817G          | ViTAM-817PH<br>ViTAM-817RH<br>ViTAM-817GH | ViTAM-819P<br>ViTAM-819R<br>ViTAM-819G          | ViTAM-819PH<br>ViTAM-819RH<br>ViTAM-819GH |
| Display type                                                            | 15.6" TFT-LCD                                                                                                                                                                          | 15.6" TFT-LCD                             | 17" TFT-LCD                                     | 17" TFT-LCD                               | 19" TFT-LCD                                     | 19" TFT-LCD                               |
| Max. resolution                                                         | 1366 x 768                                                                                                                                                                             | 1366 x 768                                | 1280 x 1024                                     | 1280 x 1024                               | 1280 x 1024                                     | 1280 x 1024                               |
| Max. color                                                              | 16.7M                                                                                                                                                                                  | 16.7M                                     | 16.2M                                           | 16.7M                                     | 16.7M                                           | 16.7M                                     |
| Luminance(cd/m²)                                                        | 400                                                                                                                                                                                    | 1000                                      | 350                                             | 1000                                      | 350                                             | 1000                                      |
| View angle(H°/V°)                                                       | 170/160                                                                                                                                                                                | 170/130                                   | 170/160                                         | 160/140                                   | 170/160                                         | 170/160                                   |
| Contrast                                                                | 500:1                                                                                                                                                                                  | 800:1                                     | 1000:1                                          | 800:1                                     | 1000:1                                          | 1000:1                                    |
| Backlight lifetime(hrs)                                                 | 50000                                                                                                                                                                                  | 50000                                     | 30000                                           | 50000                                     | 50000                                           | 50000                                     |
| Touch Screen                                                            |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Type                                                                    | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model)                                                                                                |                                           |                                                 |                                           |                                                 |                                           |
| Interface                                                               | USB                                                                                                                                                                                    |                                           |                                                 |                                           |                                                 |                                           |
| Light transmission(%)                                                   | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                    |                                           |                                                 |                                           |                                                 |                                           |
| Power                                                                   |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Power input                                                             | DC 9~36V                                                                                                                                                                               |                                           |                                                 |                                           |                                                 |                                           |
| Power Consumption (TYP.)                                                | ViTAM-816P:24W                                                                                                                                                                         |                                           | ViTAM-817P:29W                                  |                                           | ViTAM-819P:30W                                  |                                           |
| Mechanical                                                              |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Construction                                                            | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                            |                                           |                                                 |                                           |                                                 |                                           |
| IP rating                                                               | Total IP66/IP69K                                                                                                                                                                       |                                           |                                                 |                                           |                                                 |                                           |
| Mounting                                                                | VESA mount 75 x75, Yoke mount for optional                                                                                                                                             |                                           |                                                 |                                           | VESA mount 100 x 100, Yoke mount for optional   |                                           |
| Dimension(mm)                                                           | 440 x 290 x 55                                                                                                                                                                         |                                           | 432 x 358 x 55                                  |                                           | 470 x 388.6 x 60                                |                                           |
| Net weight(Kg)                                                          | 5.2                                                                                                                                                                                    |                                           | 7.1                                             |                                           | 9.5                                             |                                           |
| Environment                                                             |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Operating temperature(°C)                                               | 0~50                                                                                                                                                                                   |                                           |                                                 |                                           |                                                 |                                           |
| Storage temperature(°C)                                                 | -30~70                                                                                                                                                                                 |                                           |                                                 |                                           |                                                 |                                           |
| Humidity                                                                | 10 to 95% @ 40°C, non- condensing                                                                                                                                                      |                                           |                                                 |                                           |                                                 |                                           |
| Certification                                                           | CE/FCC Class A                                                                                                                                                                         |                                           |                                                 |                                           |                                                 |                                           |
| Operating System Support                                                |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT Enterprise |                                                                                                                                                                                        |                                           |                                                 |                                           |                                                 |                                           |

## Specifications

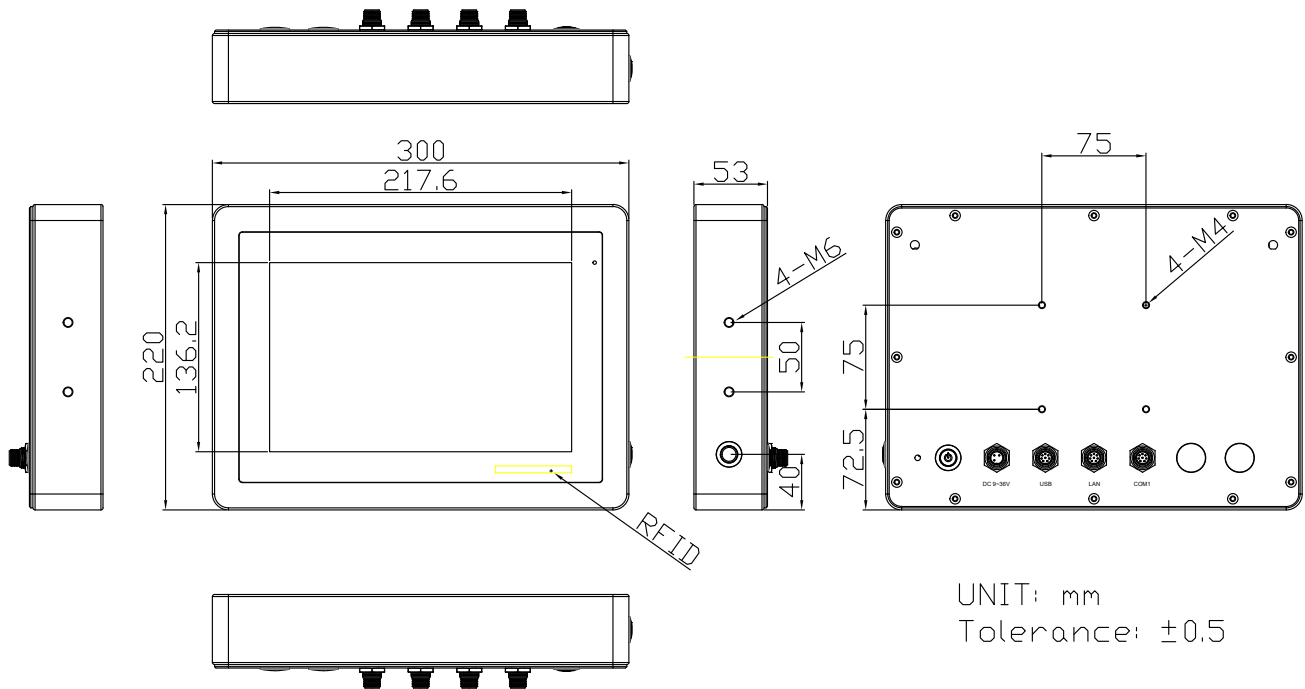


| Model Name                                                              | ViTAM-821P(H)<br>ViTAM-821R(H)<br>ViTAM-821G(H)                                                                                                                                        |                                           | ViTAM-824P(H)<br>ViTAM-824G(H)               |                            |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------------------|
| System                                                                  |                                                                                                                                                                                        |                                           |                                              |                            |
| Processor                                                               | Onboard Intel Celeron N2930(1.83GHz) Processor                                                                                                                                         |                                           |                                              |                            |
| System Chipset                                                          | SoC                                                                                                                                                                                    |                                           |                                              |                            |
| System Memory                                                           | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                                                                                                                            |                                           |                                              |                            |
| External I/O                                                            |                                                                                                                                                                                        |                                           |                                              |                            |
| USB                                                                     | 1 x M12 8-pin for USB 2.0 with waterproof cover                                                                                                                                        |                                           |                                              |                            |
| Serial/Parallel                                                         | 1 x M12 8-pin for COM1, RS-232/422/485, Default RS-232, with waterproof cover                                                                                                          |                                           |                                              |                            |
| LAN                                                                     | 1 x M12 8pin for LAN with waterproof cover                                                                                                                                             |                                           |                                              |                            |
| Others                                                                  | 1 x Touch on/off button at edge side                                                                                                                                                   |                                           |                                              |                            |
| Power connector                                                         | 1 x M12 3pin for DC Power with waterproof cover<br>1 x Power Switch on the rear rear side                                                                                              |                                           |                                              |                            |
| Option                                                                  | 2 x optional blank M12 connector with waterproof cover for selecting two from the following options:<br>2 x USB 2.0<br>USB 3.2 Gen.1<br>1 x LAN (POE for option)<br>1 x COM<br>1 x CAN |                                           |                                              |                            |
| Storage Space                                                           |                                                                                                                                                                                        |                                           |                                              |                            |
| SSD/HDD                                                                 | 1 x 2.5" SATA3 HDD/SSD                                                                                                                                                                 |                                           |                                              |                            |
| Expansion                                                               |                                                                                                                                                                                        |                                           |                                              |                            |
| Expansion Slot                                                          | 1 x Full-size mini-PCIe socket (PCIe + USB) for WIFI/BT/LTE(optional)                                                                                                                  |                                           |                                              |                            |
| RFID Module                                                             | RFID module design on the front side (optional)                                                                                                                                        |                                           |                                              |                            |
| Display                                                                 | ViTAM-821P<br>ViTAM-821R<br>ViTAM-821G                                                                                                                                                 | ViTAM-821PH<br>ViTAM-821RH<br>ViTAM-821GH | ViTAM-824P<br>ViTAM-824G                     | ViTAM-824PH<br>ViTAM-824GH |
| Display type                                                            | 21.5" TFT-LCD                                                                                                                                                                          | 21.5" TFT-LCD                             | 23.8" TFT-LCD                                | 23.8" TFT-LCD              |
| Max. resolution                                                         | 1920 x 1080                                                                                                                                                                            | 1920 x 1080                               | 1920 x 1080                                  | 1920 x 1080                |
| Max. color                                                              | 16.7M                                                                                                                                                                                  | 16.7M                                     | 16.7M                                        | 16.7M                      |
| Luminance(cd/m²)                                                        | 250                                                                                                                                                                                    | 1000                                      | 250                                          | 1000                       |
| View angle(H°/V°)                                                       | 178/178                                                                                                                                                                                | 178/178                                   | 178/178                                      | 178/178                    |
| Contrast                                                                | 3000:1                                                                                                                                                                                 | 3000:1                                    | 3000:1                                       | 5000:1                     |
| Backlight lifetime(hrs)                                                 | 30000                                                                                                                                                                                  | 50000                                     | 50000                                        | 50000                      |
| Touch Screen                                                            |                                                                                                                                                                                        |                                           |                                              |                            |
| Type                                                                    | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model)                                                                                                |                                           |                                              |                            |
| Interface                                                               | USB                                                                                                                                                                                    |                                           |                                              |                            |
| Light transmission(%)                                                   | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                                                    |                                           |                                              |                            |
| Power                                                                   |                                                                                                                                                                                        |                                           |                                              |                            |
| Power input                                                             | DC 9~36V                                                                                                                                                                               |                                           |                                              |                            |
| Power Consumption (TYP.)                                                | ViTAM-821R:30W                                                                                                                                                                         |                                           | ViTAM-824P:43W                               |                            |
| Mechanical                                                              |                                                                                                                                                                                        |                                           |                                              |                            |
| Construction                                                            | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)                                                                                                            |                                           |                                              |                            |
| IP rating                                                               | Total IP66/IP69K                                                                                                                                                                       |                                           |                                              |                            |
| Mounting                                                                | VESA mount 100 x100, Yoke mount for optional                                                                                                                                           |                                           | VESA mount 200 x100, Yoke mount for optional |                            |
| Dimension(mm)                                                           | 571 x 362 x 55                                                                                                                                                                         |                                           | 656 x 423 x 53                               |                            |
| Net weight(Kg)                                                          | 10.0                                                                                                                                                                                   |                                           | 12.5                                         |                            |
| Environment                                                             |                                                                                                                                                                                        |                                           |                                              |                            |
| Operating temperature(°C)                                               | 0 ~ 50<br>(0~40 for 21.5" high brightness model)                                                                                                                                       |                                           |                                              |                            |
| Storage temperature(°C)                                                 | -30~70                                                                                                                                                                                 |                                           |                                              |                            |
| Humidity                                                                | 10 to 95% @ 40°C, non- condensing                                                                                                                                                      |                                           |                                              |                            |
| Certification                                                           | CE/FCC Class A                                                                                                                                                                         |                                           |                                              |                            |
| Operating System Support                                                |                                                                                                                                                                                        |                                           |                                              |                            |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT Enterprise |                                                                                                                                                                                        |                                           |                                              |                            |

## ViTAM-8XX Series

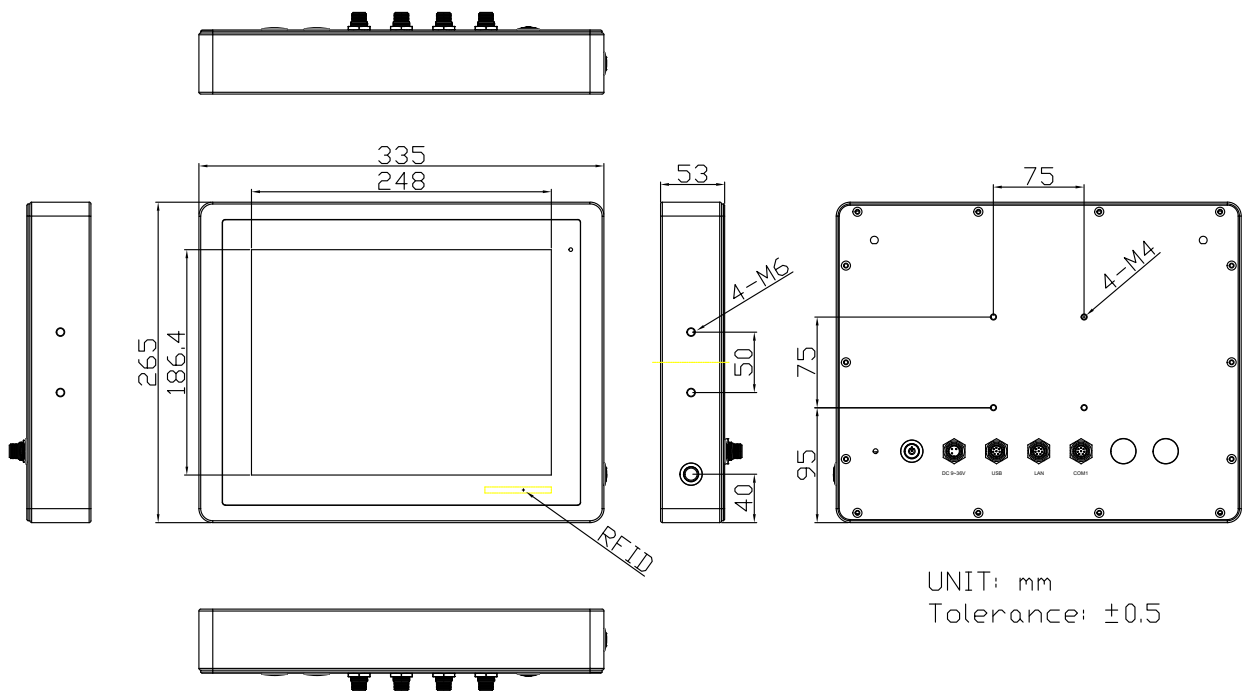
Low Power Consumption Intel® N2930 Panel PC

### ViTAM-810P/R/G(H)



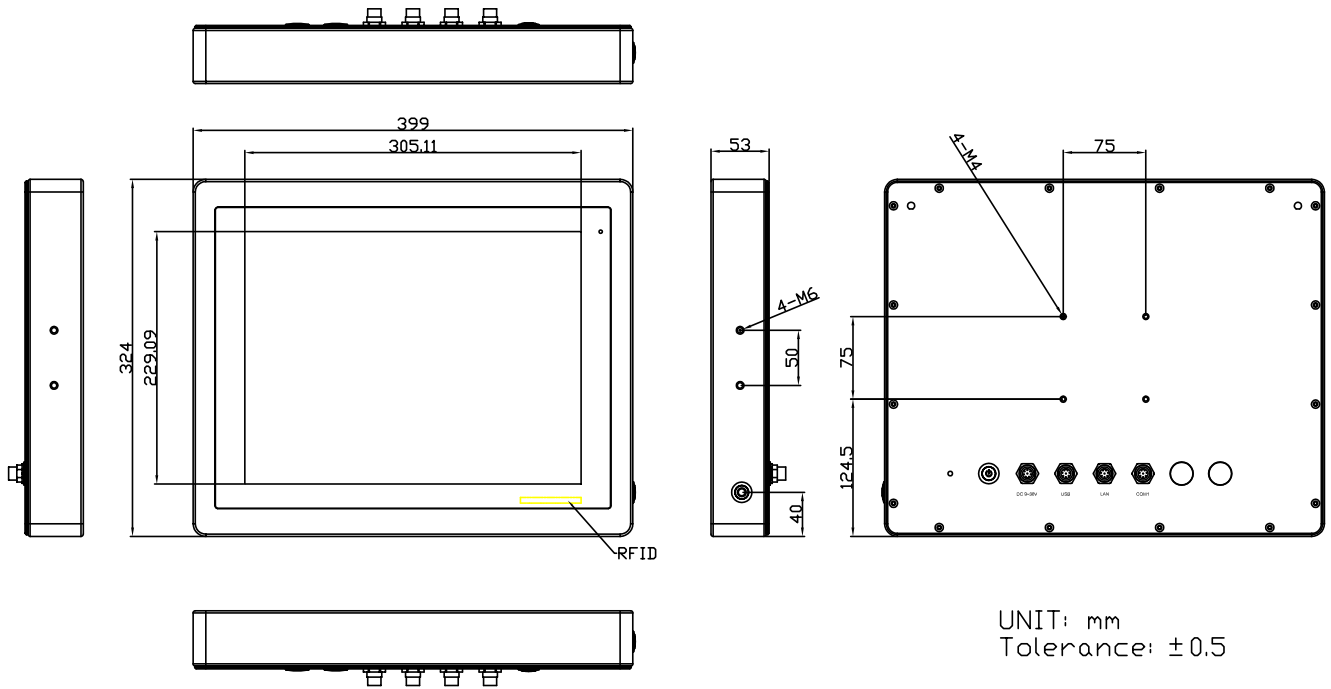
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### ViTAM-812P/R/G(H)



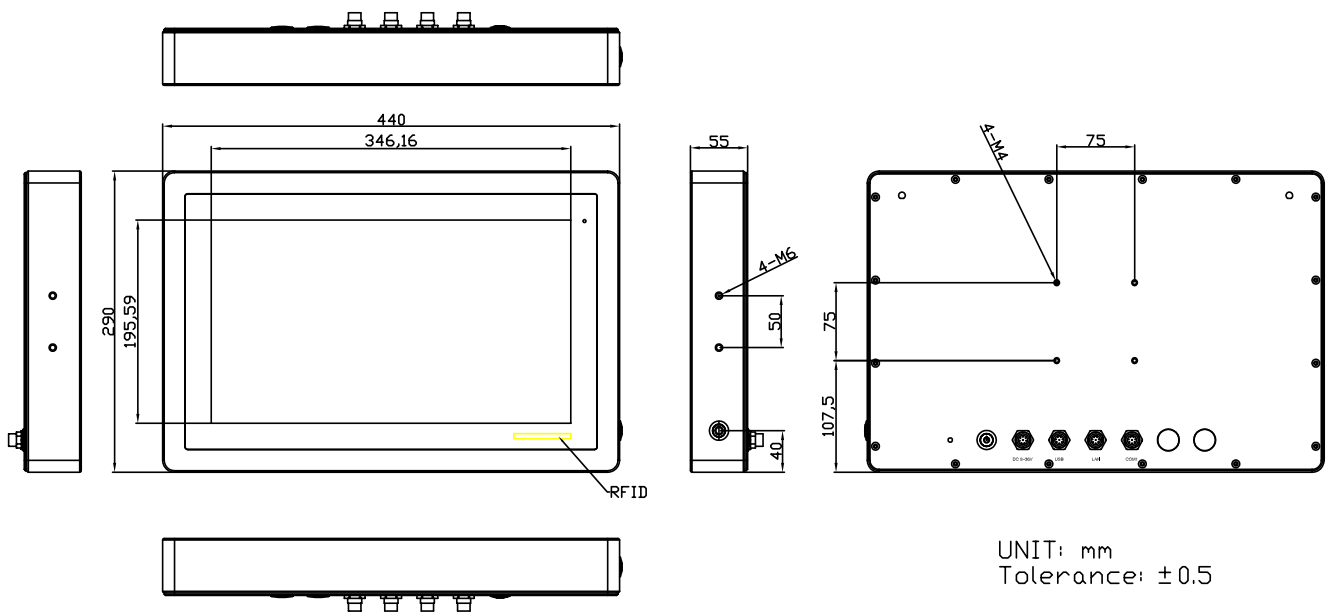
unit:mm

## ViTAM-815P/R/G(H)



unit:mm

## ViTAM-816P/R/G(H)



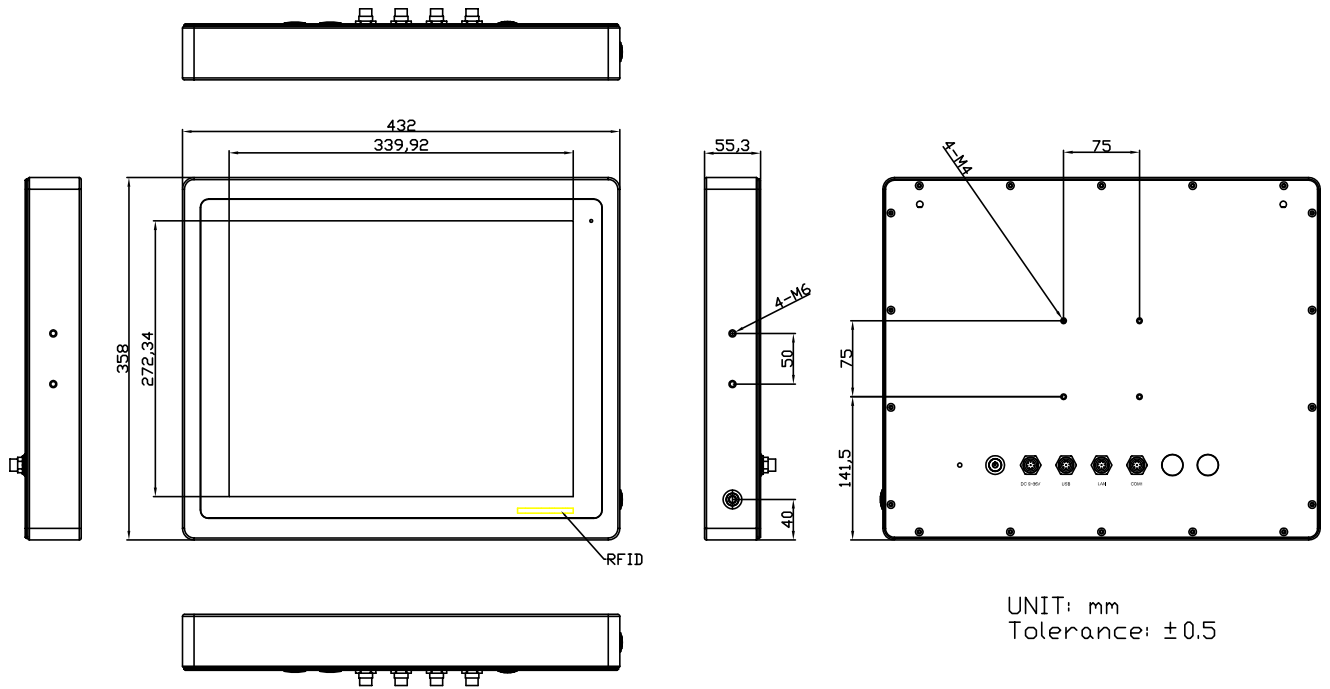
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## ViTAM-8XX Series

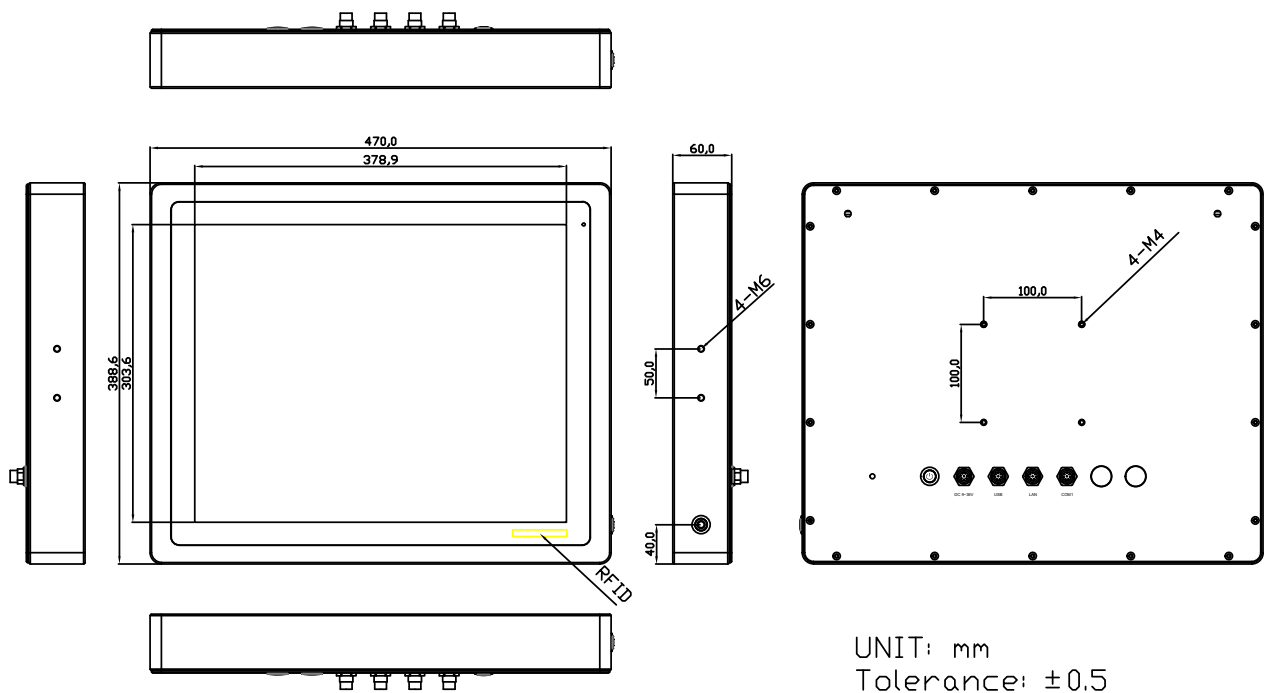
Low Power Consumption Intel® N2930 Panel PC

### ViTAM-817P/R/G(H)



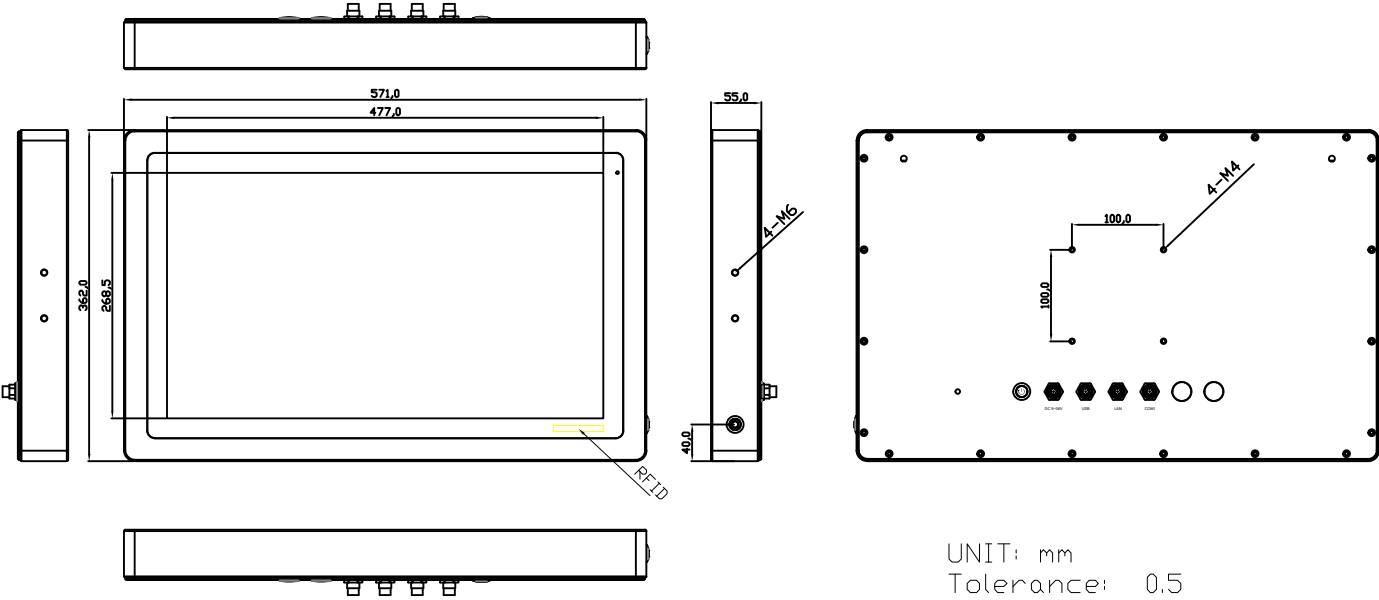
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### ViTAM-819P/R/G(H)



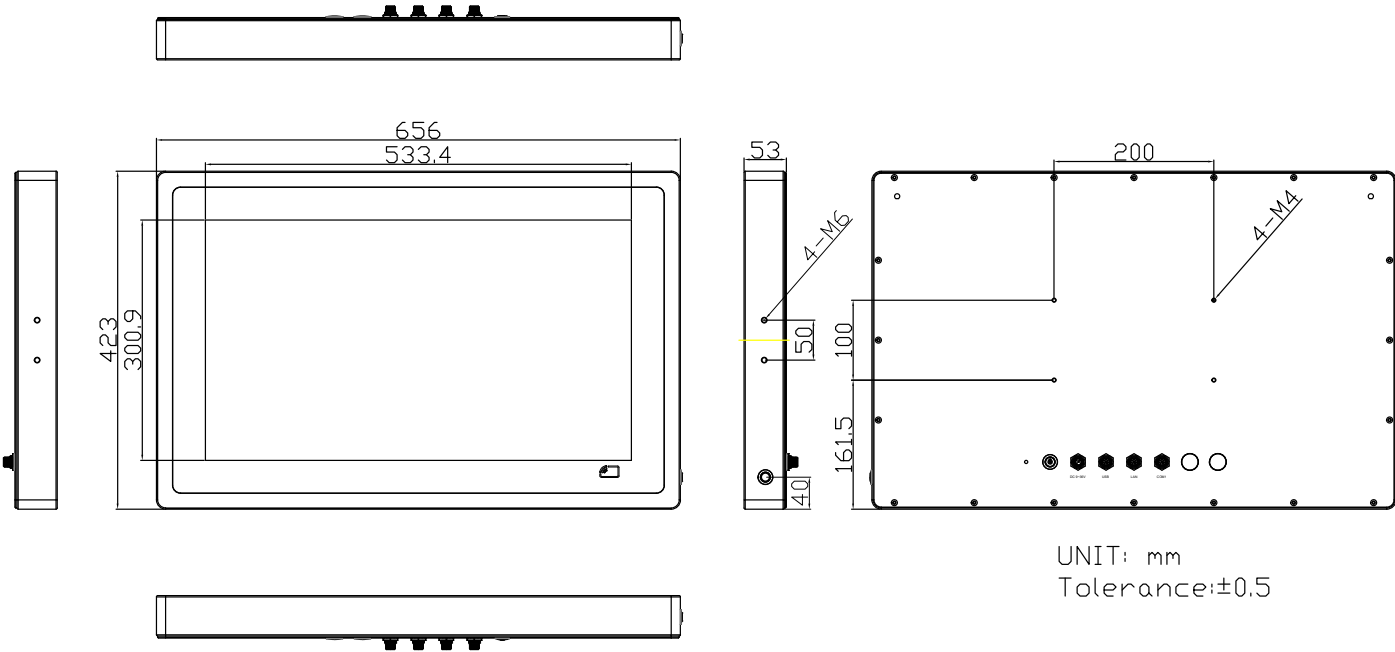
unit:mm

ViTAM-821P/R/G(H)



unit:mm

ViTAM-824P/G(H)



unit:mm

## Ordering information

| Model NO.          | Description                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-810P</b>  | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>ViTAM-810R</b>  | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>ViTAM-810G</b>  | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-810PH</b> | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-810RH</b> | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-810GH</b> | 10.1" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |
| <b>ViTAM-812P</b>  | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>ViTAM-812R</b>  | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>ViTAM-812G</b>  | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-812PH</b> | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-812RH</b> | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-812GH</b> | 12.1" SVGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |
| <b>ViTAM-815P</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                       |
| <b>ViTAM-815R</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                    |
| <b>ViTAM-815G</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                                 |
| <b>ViTAM-815PH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD       |
| <b>ViTAM-815RH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-815GH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                 |
| <b>ViTAM-816P</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>ViTAM-816R</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>ViTAM-816G</b>  | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-816PH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-816RH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-816GH</b> | 15.6" WXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |

## Ordering information

| Model NO.          | Description                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-817P</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                     |
| <b>ViTAM-817R</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                  |
| <b>ViTAM-817G</b>  | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                               |
| <b>ViTAM-817PH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>ViTAM-817RH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD  |
| <b>ViTAM-817GH</b> | 17" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD               |
| <b>ViTAM-819P</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                     |
| <b>ViTAM-819R</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                  |
| <b>ViTAM-819G</b>  | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                               |
| <b>ViTAM-819PH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>ViTAM-819RH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD  |
| <b>ViTAM-819GH</b> | 19" SXGA IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD               |
| <b>ViTAM-821P</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>ViTAM-821R</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>ViTAM-821G</b>  | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-821PH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-821RH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-821GH</b> | 21.5" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |
| <b>ViTAM-824P</b>  | 23.8" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>ViTAM-824G</b>  | 23.8" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-824PH</b> | 23.8" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-824GH</b> | 23.8" FHD IP66/IP69K stainless steel panel pc, Celeron N2930 Processor, 4GB DDR3L RAM, 32G MLC SSD, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |



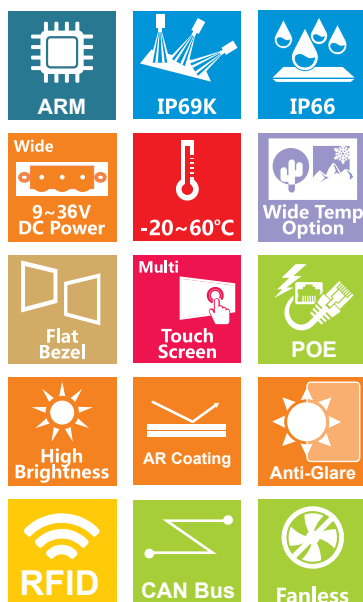


# ViTAM-6XX Series

IP66/IP69K Waterproof

Freescale i.MX6 Panel PC

- Freescale i.MX6 DualLite Core Processor
- Onboard 4GB eMMC NAND Flash
- Onboard 1GB/2GB DDR3 DRAM
- Fanless Design
- RFID Module design on the front side(optional)



Support Resistive Touch,  
Projected Capacitive  
Touch, and Glass



Touch on/off Button  
on the Side Edge for  
Hygienic Cleaning



IP66/IP69K Rated  
with M12 Connectors



Support Ergonomic  
Versatile Mounting  
Space-saving VESA  
Mounting



Support Wide-Range  
Temperature -20°~60°C



## Specifications

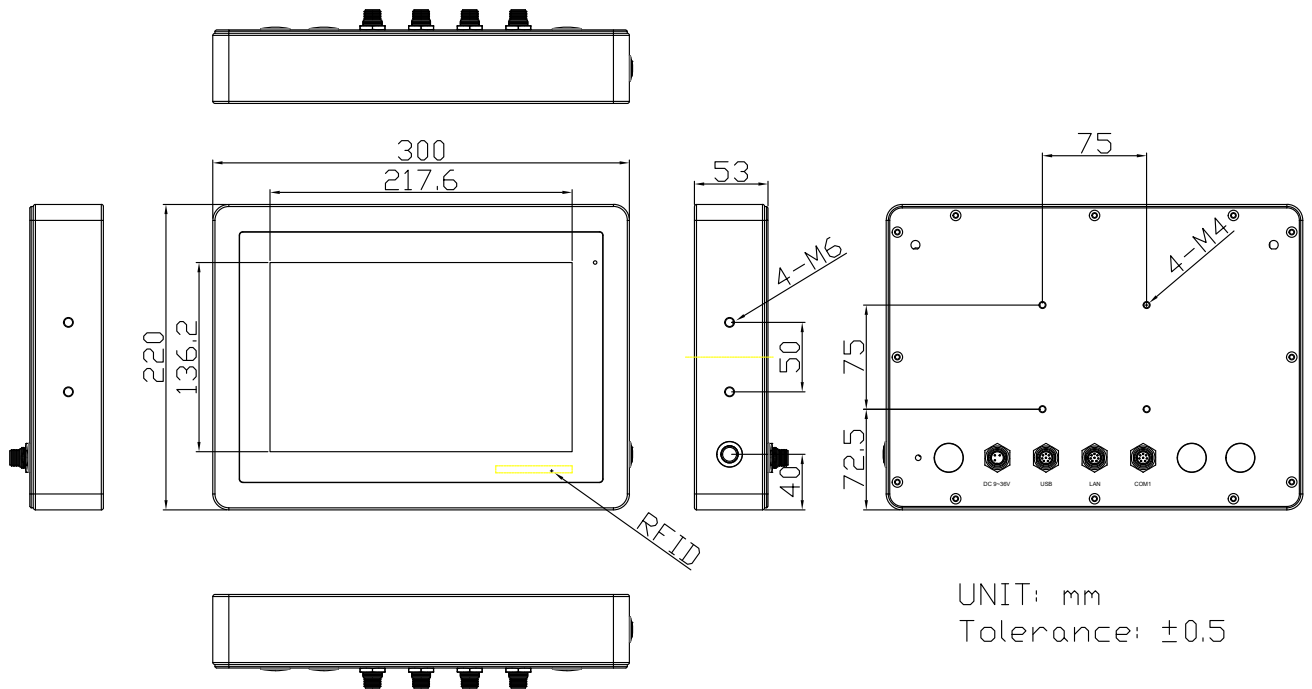


| Model Name                | ViTAM-610P(H)<br>ViTAM-610R(H)<br>ViTAM-610G(H)                                         |                                           | ViTAM-612P(H)<br>ViTAM-612R(H)<br>ViTAM-612G(H) |                                           | ViTAM-615P(H)<br>ViTAM-615R(H)<br>ViTAM-615G(H) |                                           | ViTAM-621P(H)<br>ViTAM-621R(H)<br>ViTAM-621G(H)                       |                                           |
|---------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------|
| System                    |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Processor                 | Freescale i.MX6 Dual Lite,ARM Cortex A9(2x Cores,1.0GHz)                                |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| System Chipset            | N/A                                                                                     |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| System Memory             | Onboard 1GB DDR3 SDRAM                                                                  |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| External I/O              |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| USB                       | 1 x M12 8-pin for USB 2.0 with waterproof cover                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Serial/Parallel           | 1 x M12 8-pin COM1, RS-232/422/485, default RS-232, with waterproof cover               |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| LAN                       | 1 x M12 8-pin for LAN with waterproof cover(POE for option)                             |                                           |                                                 |                                           |                                                 |                                           | 1 x M12 8-pin for LAN with waterproof cover                           |                                           |
| Others                    | 1 x Touch on/off button at edge side                                                    |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover<br>1 x Power switch on the rear side   |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Option                    | 1 x RS-232/422/485<br>1 x 8-bit GPIO<br>1 x CAN<br>1 x POE via AG5300                   |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Storage Space             |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| eMMC                      | Onboard 4GB eMMC NAND Flash                                                             |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Expansion                 |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Expansion Slot            | 1 x Full-size mini-PCIe socket (PCIe + USB) for WIFI/BT/LTE(optional)                   |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| RFID Module               | RFID module design on the front side (optional)                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Display                   | ViTAM-610P<br>ViTAM-610R<br>ViTAM-610G                                                  | ViTAM-610PH<br>ViTAM-610RH<br>ViTAM-610GH | ViTAM-612P<br>ViTAM-612R<br>ViTAM-612G          | ViTAM-612PH<br>ViTAM-612RH<br>ViTAM-612GH | ViTAM-615P<br>ViTAM-615R<br>ViTAM-615G          | ViTAM-615PH<br>ViTAM-615RH<br>ViTAM-615GH | ViTAM-621PH<br>ViTAM-621RH<br>ViTAM-621GH                             | ViTAM-621PH<br>ViTAM-621RH<br>ViTAM-621GH |
| Display type              | 10.1" TFT-LCD                                                                           | 10.1" TFT-LCD                             | 12.1" TFT-LCD                                   | 12.1" TFT-LCD                             | 15" TFT-LCD                                     | 15" TFT-LCD                               | 21.5" TFT-LCD                                                         | 21.5" TFT-LCD                             |
| Max. resolution           | 1280 x 800                                                                              | 1280 x 800                                | 800 x 600<br>1024x768(optional)                 | 800 x 600<br>1024x768(optional)           | 1024 x 768                                      | 1024 x 768                                | 1920 x 1080                                                           | 1920 x 1080                               |
| Max. color                | 16.7M                                                                                   | 16.2M                                     | 16.2M                                           | 16.2M                                     | 16.2M                                           | 16.7M                                     | 16.7M                                                                 | 16.7M                                     |
| Luminance(cd/m²)          | 350                                                                                     | 1000                                      | 400/500(optional)                               | 1000                                      | 300                                             | 1000                                      | 250                                                                   | 1000                                      |
| View angle(H°/V°)         | 170/170                                                                                 | 170/170                                   | 178/178                                         | 1178/178                                  | 176/176                                         | 176/176                                   | 178/178                                                               | 178/178                                   |
| Contrast                  | 800:1                                                                                   | 1300:1                                    | 1500:1<br>1500:1(optional)                      | 800:1<br>1000:1(optional)                 | 2000:1                                          | 3000:1                                    | 3000:1                                                                | 3000:1                                    |
| Backlight lifetime(hrs)   | 30000                                                                                   | 50000                                     | 50000<br>30000(optional)                        | 50000<br>70000(optional)                  | 70000                                           | 70000                                     | 50000                                                                 | 50000                                     |
| Touch Screen              |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Interface                 | SPI / USB(For P model)                                                                  |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Power                     |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Power input               | DC 9~36V                                                                                |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Power Consumption (TYP.)  | ViTAM-610P:10W                                                                          |                                           | ViTAM-612P:12W                                  |                                           | ViTAM-615P:12W                                  |                                           | ViTAM-621P:22W                                                        |                                           |
| Mechanical                |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Construction              | 304 Stainless steel chassis(default), 316 Stainless steel chassis(optional)             |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| IP rating                 | Total IP66/IP69K                                                                        |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Mounting                  | VESA mount 75 x75, Yoke mount for optional                                              |                                           |                                                 |                                           |                                                 |                                           | VESA mount 100 x 100, Yoke mount for optional                         |                                           |
| Dimension(mm)             | 300 x 220 x 53                                                                          |                                           | 335 x 265 x 53                                  |                                           | 399 x 324 x 53                                  |                                           | 571 x 362 x 55                                                        |                                           |
| Net weight(Kg)            | 3.8                                                                                     |                                           | 4.7                                             |                                           | 7.1                                             |                                           | 9.8                                                                   |                                           |
| Environment               |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Operating temperature(°C) | 0 ~ 50 / -20~60(option)                                                                 |                                           |                                                 |                                           |                                                 |                                           | 0 ~ 50<br>(0~40 only for ViTAM-621APH<br>21.5" high brightness model) |                                           |
| Storage temperature(°C)   | -30~70                                                                                  |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                       |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Certification             | CE/FCC Class A                                                                          |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Operating System Support  |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Android 6.0.1             |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |
| Linux 4.1.15              |                                                                                         |                                           |                                                 |                                           |                                                 |                                           |                                                                       |                                           |

## ViTAM-6XX Series

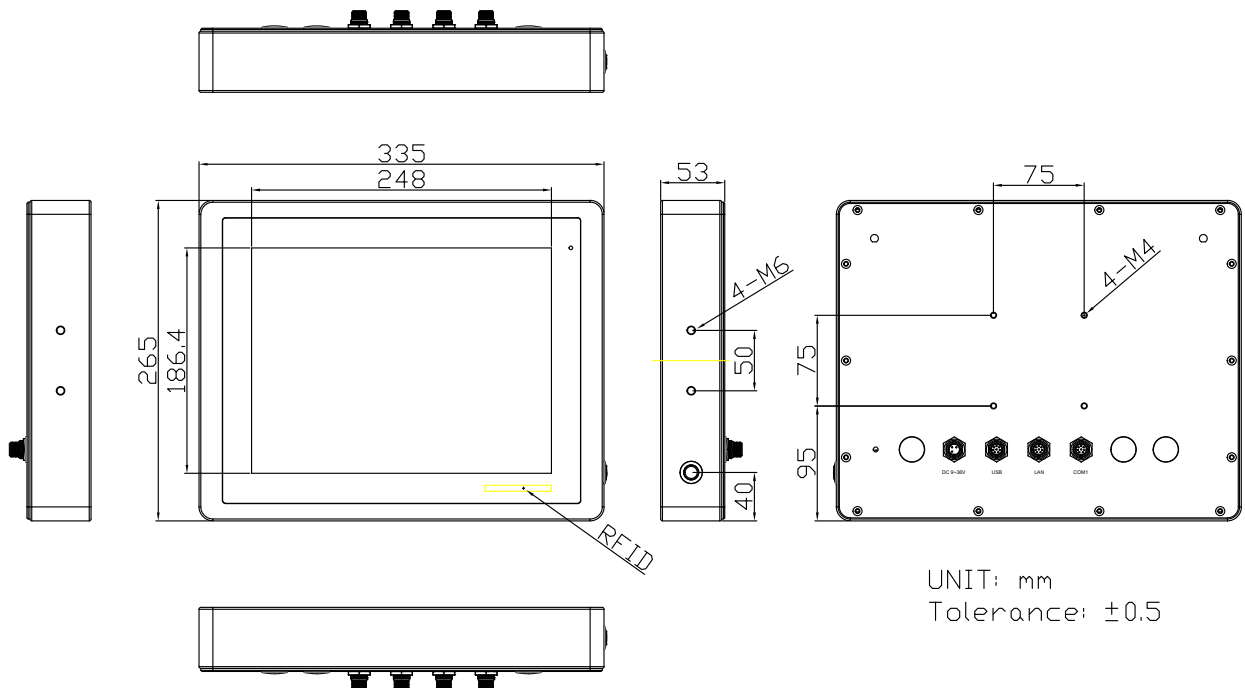
Freescle i.MX6 IP66/IP69K Panel PC

### ViTAM-610P/R/G(H)



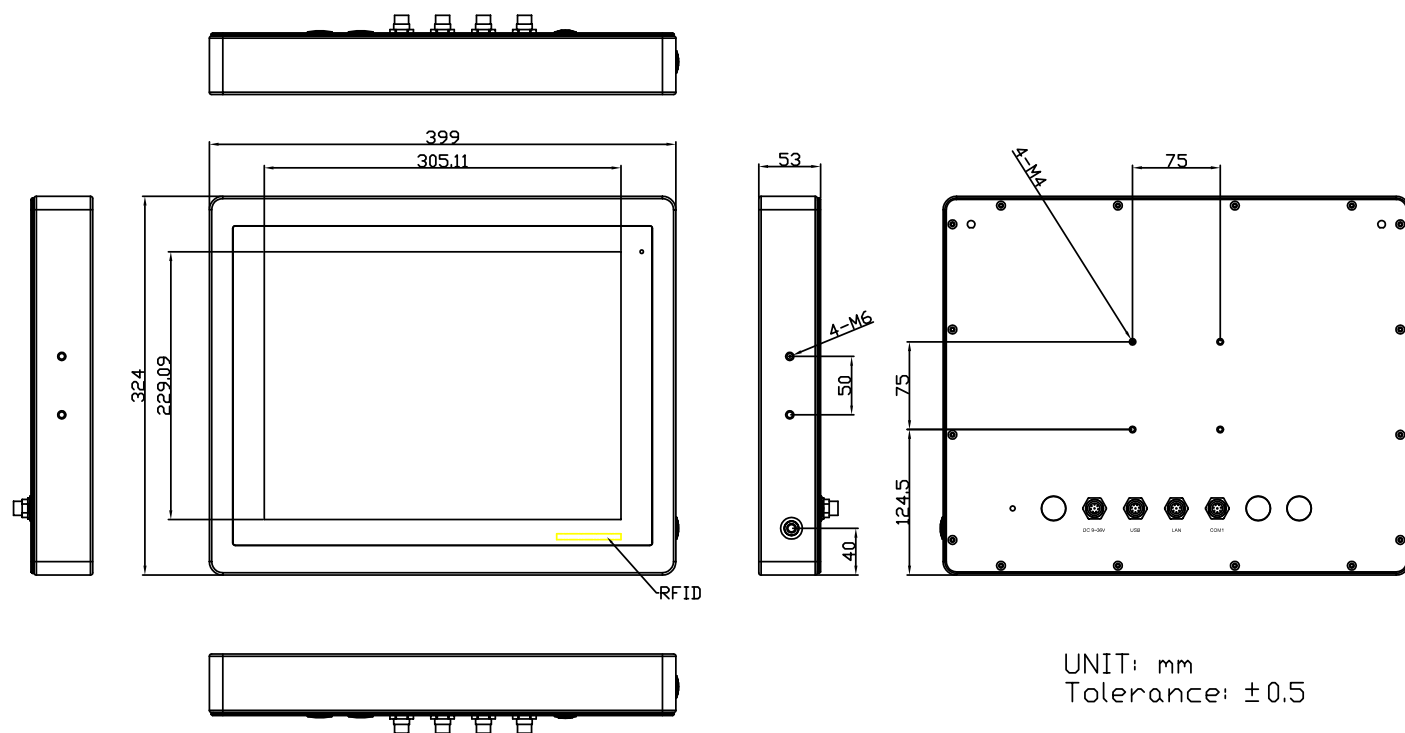
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### ViTAM-612P/R/G(H)



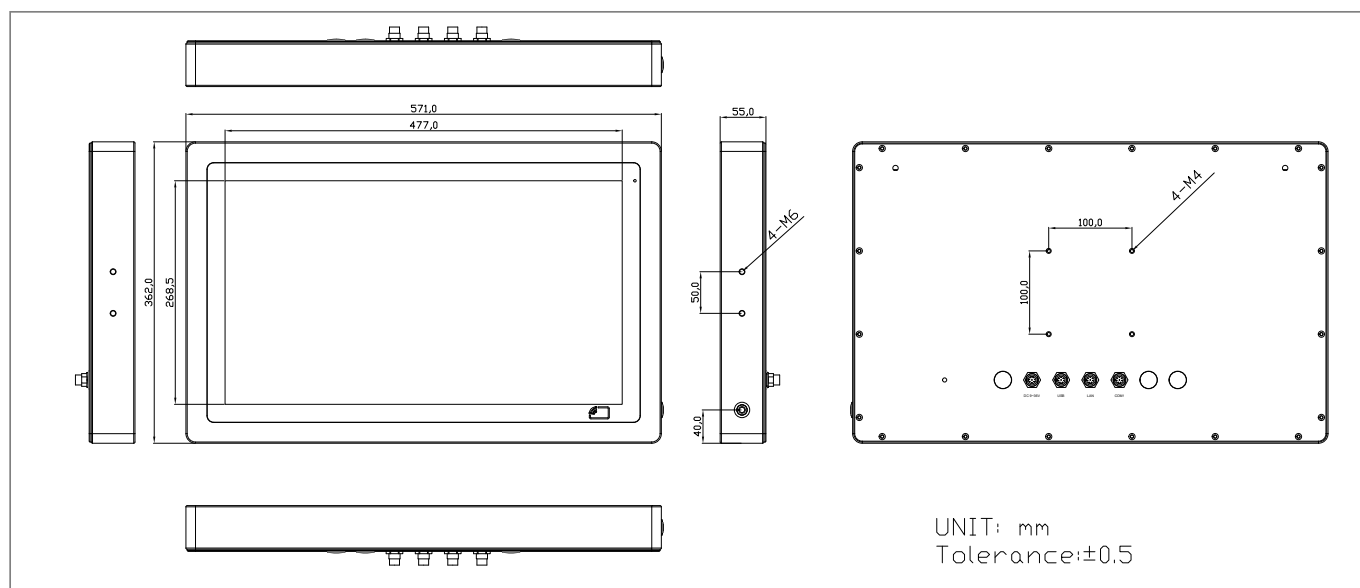
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## ViTAM-615P/R/G(H)



unit:mm

## ViTAM-621P/R/G(H)



unit:mm



## Ordering information

| Model NO.          | Description                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-610P</b>  | 10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter                          |
| <b>ViTAM-610R</b>  | 10.1" WXGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>ViTAM-610G</b>  | 10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter                                    |
| <b>ViTAM-610PH</b> | 10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD          |
| <b>ViTAM-610RH</b> | 10.1" WXGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-610GH</b> | 10.1" WXGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                    |
| <b>ViTAM-612P</b>  | 12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter                          |
| <b>ViTAM-612R</b>  | 12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter                       |
| <b>ViTAM-612G</b>  | 12.1" SVGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter                              |
| <b>ViTAM-612PH</b> | 12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD          |
| <b>ViTAM-612RH</b> | 12.1" SVGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD       |
| <b>ViTAM-612GH</b> | 12.1" SVGA IP66/IP69K stainless steel panel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD              |

| Model NO.          | Description                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-615P</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 9~36V DC power input with Adapter                      |
| <b>ViTAM-615R</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter                    |
| <b>ViTAM-615G</b>  | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 9~36V DC power input with Adapter                                |
| <b>ViTAM-615PH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD      |
| <b>ViTAM-615RH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>ViTAM-615GH</b> | 15" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                |
| <b>ViTAM-621P</b>  | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 12~36V DC power input with Adapter                   |
| <b>ViTAM-621R</b>  | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 12~36V DC power input with Adapter                 |
| <b>ViTAM-621G</b>  | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 12~36V DC power input with Adapter                             |
| <b>ViTAM-621PH</b> | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, projected capacitive touch, 12~36V DC power input with Adapter, 1,000 nits LCD   |
| <b>ViTAM-621RH</b> | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, 5 wire resistive touch window, 12~36V DC power input with Adapter, 1,000 nits LCD |
| <b>ViTAM-621GH</b> | 21.5" XGA IP66/IP69K stainless steel panel pc, Freescale i.MX6 Dual Lite ARM Cortex A9,1GB DDR3 RAM,4GB eMMCe, protection glass, 12~36V DC power input with Adapter, 1,000 nits LCD             |

Built for Hazardous Environments



TAIWAN  
EXCELLENCE  
2019

# AEx Series

- ▶ AEx-8XXP(H)
- ▶ AEx-9XXAP(H)
- ▶ AEx-2410/2411
- ▶ AEx-1XXP(H)





# AEx Series

Pave the Way for Intelligent Oil and Gas Industry



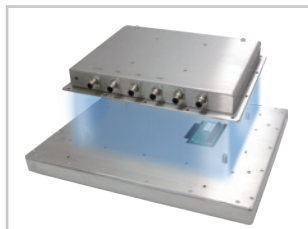
APLEX AEx series is the solution for hazardous condition of exposure to gas and vapor. The AEx series comes in panel PC (AEx) with high computing performance required in the hazardous environment.



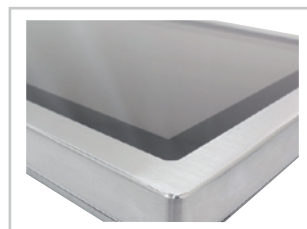
SUS316 Stainless Steel for Anti-corrosion



IP66 Grade Waterproof Protection with M12 Connectors



Modular Design for Easy Maintenance



Projected Capacitive Touch Supported

## Size Selection: 15", 16", 19", 21.5" LCD

- ATEX Zone2/Zone22, IECEx and C1D2/C2D2 Certificate
- 6th Gen. Intel Core i5/i3 processor (AEx-9XXAP(H) series)
- Intel Celeron Processor N2930 (AEx-8XXP(H) series)
- Wide Range DC 9~36V Power Input
- Support Panel Mount & VESA Mount
- Support Projected Capacitive Touch
- Full Flat Bezel and Fanless Design
- Modular Design

### AEx-2410/2411 + AEx-1XXP(H) series

Asset Monitoring and Inspection / Data Collection



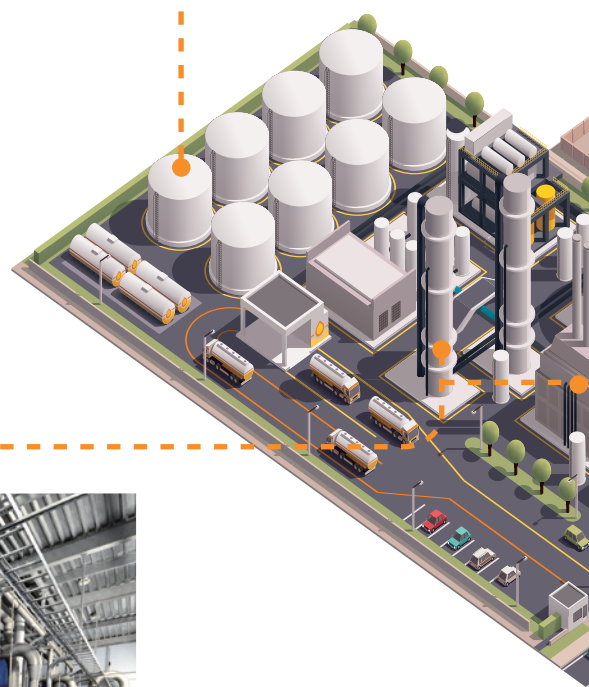
Collecting data from oil pipe/tank via Box PC, workers enable to inspect and monitor the information via Display.



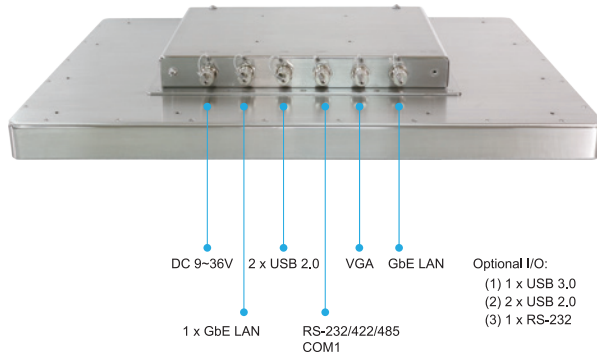
### AEx-8XXP(H)/9XXAP(H) Series

Equipment Real-time Controlling

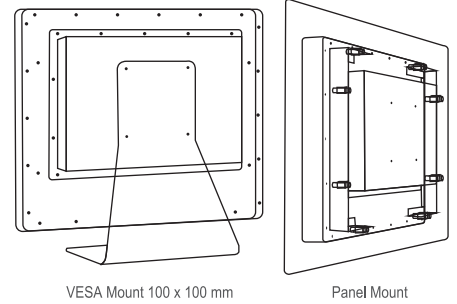
In small control room of oil and gas industry, controlling power on/off button is equipped for adjusting (order of oilpipe), maintenance and emergency.



zardous environment. It is capable of withstanding vibration, shock, corrosion and can operate under the  
 x-8XXP/9XXAP), display (AEx-1XXP) and box PC (AEx-2410/2411) which are packed with different level of  
 arshest environment applications.



Optional I/O:  
 (1) 1 x USB 3.0  
 (2) 2 x USB 2.0  
 (3) 1 x RS-232



▲ Sunlight Readable Solution

▲ Variety of I/O Applications

▲ Mounting Application

## AEx-8XXP(H)/9XXAP(H) Series Central Control Room

Multiple panel PCs are presented in control room to deal with every situation 24/7.



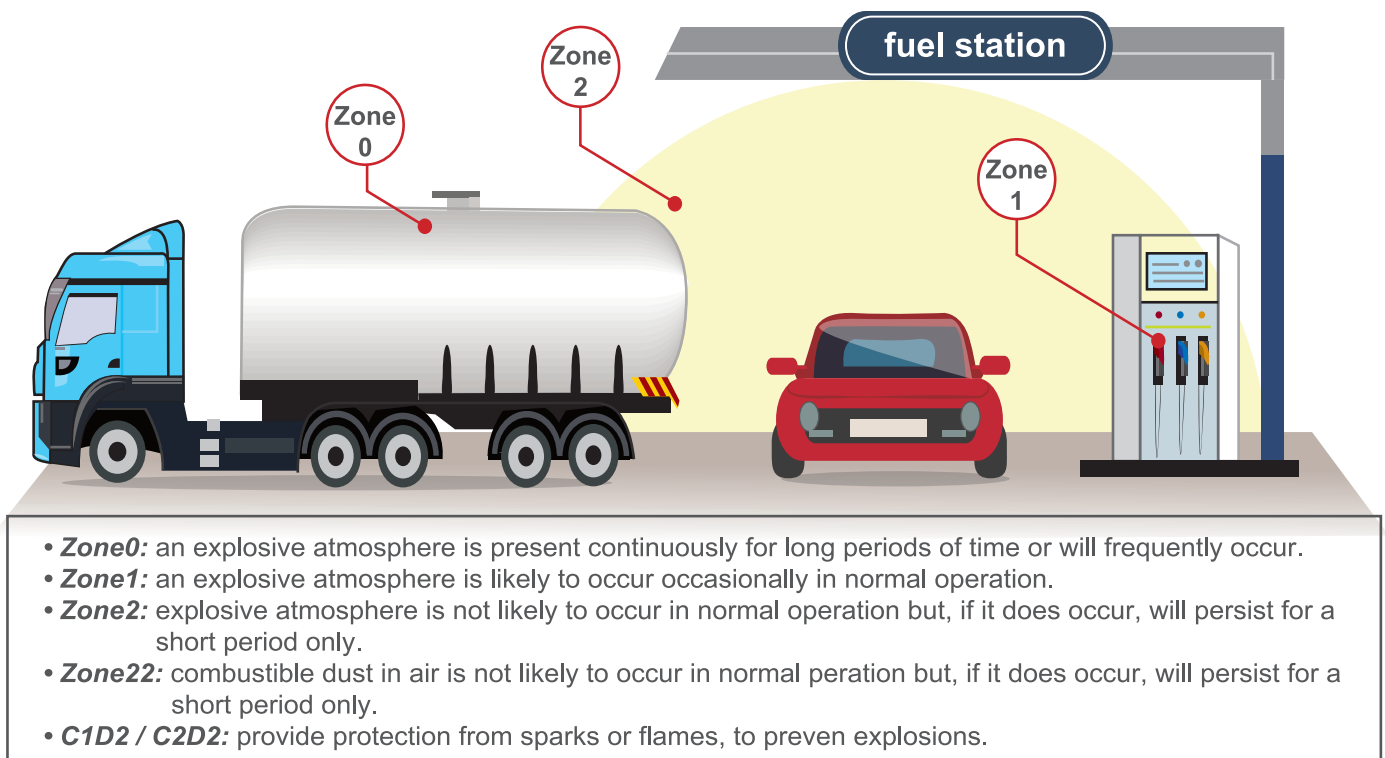
## AEx-2410/2411 Box PC series Data Gateway / Communication / Notification

Collecting data from dangerous field.  
 EX. Personnel access, Vehicle control,  
 equipment temp and air pollution monitoring



# ATEX Safety Certification solutions is well-prepared for Hazardous Environment Applications

In potentially explosive atmosphere, the explosion can be occurred when three elements exist: Flammable and combustible substances, Comburents, Ignition source. The equipments in this environment strictly are required the high safety certification to ensure that each stage operates accurately. APLEX AEx series solutions meet ATEX/IECEX/C1D2/C2D2 certificate for intrinsic safety that can be greatly used in Ex-area.



| Explosion Group |     | Examples Depending on<br>- Explosion Group<br>- Temperature Class |                                         |                                    |                                               |
|-----------------|-----|-------------------------------------------------------------------|-----------------------------------------|------------------------------------|-----------------------------------------------|
| IIA             | IIB | IIC                                                               | Ammonia<br>Methane<br>Ethane<br>Propane | Ethanol<br>Cyclohexane<br>n-butane | Petrol<br>Diesel Fuel<br>Fuel oil<br>n-hexane |
|                 |     |                                                                   | City Gas<br>Acrylic<br>Nitrile          | Ethylene<br>Ethylene Oxide         | Ethyl Glycol<br>Carbon<br>Hydrogen            |
|                 |     |                                                                   | Hydrogen                                | Acetylene                          | Carbon Disulphide                             |
|                 |     |                                                                   | T1<450°C                                |                                    |                                               |
|                 |     |                                                                   | T2<300°C                                |                                    |                                               |
|                 |     |                                                                   | T3<200°C                                |                                    |                                               |
|                 |     |                                                                   | T4<135°C                                |                                    |                                               |
|                 |     |                                                                   | T4<135°C                                |                                    |                                               |
|                 |     |                                                                   | T6<85°C                                 |                                    |                                               |



**AEx series  
ATEX and IECEx Marking:**  
II 3 G D Ex ec ic IIC T4 Gc  
II 3 G D Ex tc IIIC T135°C DC

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| <b>II</b>         | Equipment Group II                                            |
| <b>3</b>          | Equipment Category, Zone2/Zone22                              |
| <b>G</b>          | Environment, Gas                                              |
| <b>D</b>          | Environment, Dust                                             |
| <b>Ex</b>         | Explosion-proof Equipment Identification                      |
| <b>ec (ic)/tc</b> | Type of Protection                                            |
| <b>IIC/IIIC</b>   | Explosion group, Gas (IIA, IIB ,IIC)/ Dust (IIIA, IIIB ,IIIC) |
| <b>T4/T135°C</b>  | Temperature Class (T1-T6)                                     |
| <b>Gc</b>         | Equipment protection class                                    |





# AEx-9XXAP(H) Series

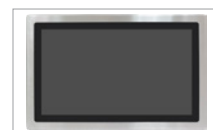
Stainless Steel Panel PC for Hazardous Locations

ATEX/IECEX/C1D2 Certified Panel PC

- Intel 6<sup>th</sup> Gen. Core i3/i5 Processors
- WLAN for Option
- Full Flat Bezel and Fanless Design
- Total IP66 Grade with M12 Waterproof connector
- Wide Range DC 9~36V Power Input
- Variety of IO applications



SUS316 Stainless Steel



Full Flat Bezel and Fanless Design



Total IP66 Grade with M12 Waterproof Connector



Modular Design



Wide Range DC 9~36V Power Input



# AEx-9XXAP(H) Series

ATEX/IECEX/C1D2 Certified Panel PC



## Specifications

| Model Name                | AEx-915AP                                                                                                                                                                                                                                                                         |  | AEX-915APH     |                | AEX-916AP      |  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|----------------|----------------|--|
| System                    |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Processor                 | Onboard 6th Gen. Intel Core i3/i5 processor                                                                                                                                                                                                                                       |  |                |                |                |  |
| System Chipset            | SoC                                                                                                                                                                                                                                                                               |  |                |                |                |  |
| System Memory             | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                                                                                                                                                       |  |                |                |                |  |
| External I/O              |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| USB                       | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |  |                |                |                |  |
| Serial/Parallel           | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |  |                |                |                |  |
| LAN                       | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |  |                |                |                |  |
| Graph                     | 1 x M12 8pin for VGA with waterproof cover and chain                                                                                                                                                                                                                              |  |                |                |                |  |
| Power connector           | 1 x M12 3-pin for DC power connector with waterproof cover and chain                                                                                                                                                                                                              |  |                |                |                |  |
| Storage Space             |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| HDD                       | 1 x 2.5" HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |  |                |                |                |  |
| Expansion                 |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Onboard expansion bus     | 1 x Mini-PCIe (full size)                                                                                                                                                                                                                                                         |  |                |                |                |  |
| Display                   |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Display type              | 15" TFT-LCD                                                                                                                                                                                                                                                                       |  | 15" TFT-LCD    |                | 15.6" TFT-LCD  |  |
| Max. resolution           | 1024 x 768                                                                                                                                                                                                                                                                        |  | 1024 x 768     |                | 1366 x 768     |  |
| Max. color                | 16.2M/262K                                                                                                                                                                                                                                                                        |  | 262K           |                | 16.2M          |  |
| Luminance(cd/m²)          | 450                                                                                                                                                                                                                                                                               |  | 1000           |                | 400            |  |
| View angle(H°/V°)         | 160/150                                                                                                                                                                                                                                                                           |  | 160/150        |                | 160/140        |  |
| Contrast                  | 800:1                                                                                                                                                                                                                                                                             |  | 800:1          |                | 700:1          |  |
| Backlight lifetime(hrs)   | 70000                                                                                                                                                                                                                                                                             |  | 50000          |                | 50000          |  |
| Touch Screen              |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Type                      | Projected Capacitive                                                                                                                                                                                                                                                              |  |                |                |                |  |
| Interface                 | USB                                                                                                                                                                                                                                                                               |  |                |                |                |  |
| Light transmission(%)     | 90%                                                                                                                                                                                                                                                                               |  |                |                |                |  |
| Power                     |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Power input               | 9~36V DC                                                                                                                                                                                                                                                                          |  |                |                |                |  |
| Power Consumption (TYP.)  | AEx-915AP: 21W                                                                                                                                                                                                                                                                    |  |                | AEx-916AP: 27W |                |  |
| Mechanical                |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Construction              | 316 stainless steel chassis                                                                                                                                                                                                                                                       |  |                |                |                |  |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                        |  |                |                |                |  |
| Mounting                  | VESA mount 100 x 100, Panel mount (option)                                                                                                                                                                                                                                        |  |                |                |                |  |
| Dimension(mm)             | 399 x 324 x 70                                                                                                                                                                                                                                                                    |  | 399 x 324 x 70 |                | 440 x 290 x 75 |  |
| Net weight(Kg)            | 9.6                                                                                                                                                                                                                                                                               |  | 9.6            |                | 10.0           |  |
| Environment               |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Operating temperature(°C) | -20~60                                                                                                                                                                                                                                                                            |  |                |                |                |  |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                            |  |                |                |                |  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |  |                |                |                |  |
| Safety                    | CSA C22.2 No.61010                                                                                                                                                                                                                                                                |  |                |                |                |  |
| Certification             | CE / FCC Class A<br>ATEx / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEx / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |  |                |                |                |  |
| Operating System Support  |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |
| Windows 10 IoT ENT LTSC   |                                                                                                                                                                                                                                                                                   |  |                |                |                |  |

## Specifications

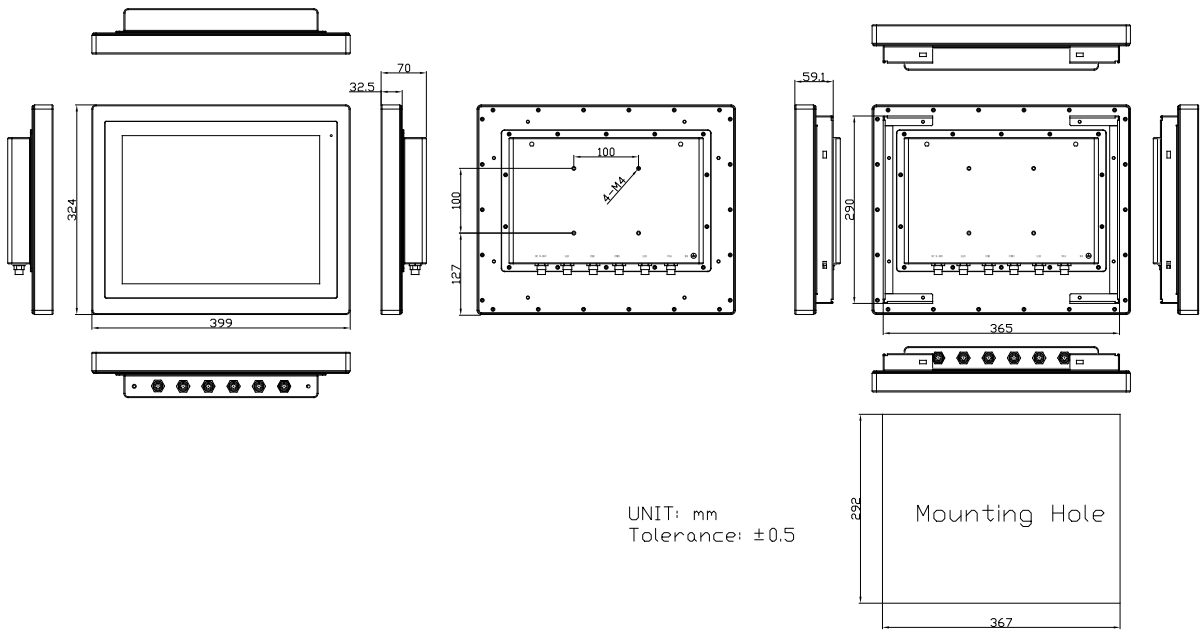


| Model Name                | AEX-919AP |                                                                                                                                                                                                                                                                                   | AEX-919APH |                  | AEX-921AP     |                  |  |
|---------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|---------------|------------------|--|
| System                    |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Processor                 |           | Onboard 6th Gen. Intel Core i3/i5 processor                                                                                                                                                                                                                                       |            |                  |               |                  |  |
| System Chipset            |           | SoC                                                                                                                                                                                                                                                                               |            |                  |               |                  |  |
| System Memory             |           | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                                                                                                                                                       |            |                  |               |                  |  |
| External I/O              |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| USB                       |           | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |            |                  |               |                  |  |
| Serial/Parallel           |           | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |            |                  |               |                  |  |
| LAN                       |           | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |            |                  |               |                  |  |
| Graph                     |           | 1 x M12 8pin for VGA with waterproof cover and chain                                                                                                                                                                                                                              |            |                  |               |                  |  |
| Power connector           |           | 1 x M12 3-pin for DC power connector with waterproof cover and chain                                                                                                                                                                                                              |            |                  |               |                  |  |
| Storage Space             |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| HDD                       |           | 1 x 2.5" HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |            |                  |               |                  |  |
| Expansion                 |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Onboard expansion bus     |           | 1 x Mini-PCle (full size)                                                                                                                                                                                                                                                         |            |                  |               |                  |  |
| Display                   |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Display type              |           | 19" TFT-LCD                                                                                                                                                                                                                                                                       |            | 19" TFT-LCD      |               | 21.5" TFT-LCD    |  |
| Max. resolution           |           | 1280 x 1024                                                                                                                                                                                                                                                                       |            | 1280 x 1024      |               | 1920 x 1080      |  |
| Max. color                |           | 16.7M                                                                                                                                                                                                                                                                             |            | 16.7M            |               | 16.7M            |  |
| Luminance(cd/m²)          |           | 350                                                                                                                                                                                                                                                                               |            | 1000             |               | 300              |  |
| View angle(H°/V°)         |           | 170/160                                                                                                                                                                                                                                                                           |            | 170/160          |               | 178/178          |  |
| Contrast                  |           | 1000:1                                                                                                                                                                                                                                                                            |            | 1000:1           |               | 3000:1           |  |
| Backlight lifetime(hrs)   |           | 70000                                                                                                                                                                                                                                                                             |            | 70000            |               | 50000            |  |
| Touch Screen              |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Type                      |           | Projected Capacitive                                                                                                                                                                                                                                                              |            |                  |               |                  |  |
| Interface                 |           | USB                                                                                                                                                                                                                                                                               |            |                  |               |                  |  |
| Light transmission(%)     |           | 90%                                                                                                                                                                                                                                                                               |            |                  |               |                  |  |
| Power                     |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Power input               |           | 9~36V DC                                                                                                                                                                                                                                                                          |            |                  |               |                  |  |
| Power Consumption (TYP.)  |           | AEx-919AP:24W                                                                                                                                                                                                                                                                     |            |                  | AEx-921AP:37W |                  |  |
| Mechanical                |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Construction              |           | 316 stainless steel chassis                                                                                                                                                                                                                                                       |            |                  |               |                  |  |
| IP rating                 |           | Total IP66                                                                                                                                                                                                                                                                        |            |                  |               |                  |  |
| Mounting                  |           | VESA mount 100 x 100, Panel mount (option)                                                                                                                                                                                                                                        |            |                  |               |                  |  |
| Dimension(mm)             |           | 470 x 388.6 x 75                                                                                                                                                                                                                                                                  |            | 470 x 388.6 x 75 |               | 571 x 362 x 75.1 |  |
| Net weight(Kg)            |           | 13.2                                                                                                                                                                                                                                                                              |            | 13.2             |               | 12.6             |  |
| Environment               |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Operating temperature(°C) |           | -20~60                                                                                                                                                                                                                                                                            |            |                  |               |                  |  |
| Storage temperature(°C)   |           | -30~70                                                                                                                                                                                                                                                                            |            |                  |               |                  |  |
| Humidity                  |           | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |            |                  |               |                  |  |
| Safety                    |           | CSA C22.2 No.61010                                                                                                                                                                                                                                                                |            |                  |               |                  |  |
| Certification             |           | CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |            |                  |               |                  |  |
| Operating System Support  |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |
| Windows 10 IoT ENT LTSC   |           |                                                                                                                                                                                                                                                                                   |            |                  |               |                  |  |

# AEx-9XXAP(H) Series

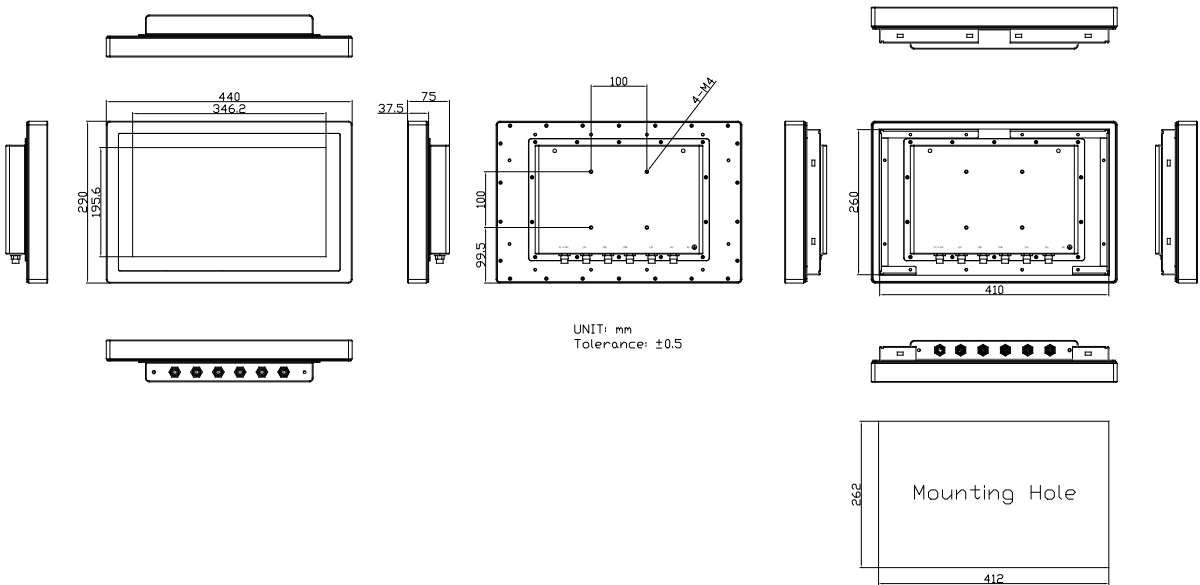
ATEX/IECEX/C1D2 Certified Panel PC

## AEx-915AP AEx-915APH



unit:mm

## AEx-916AP



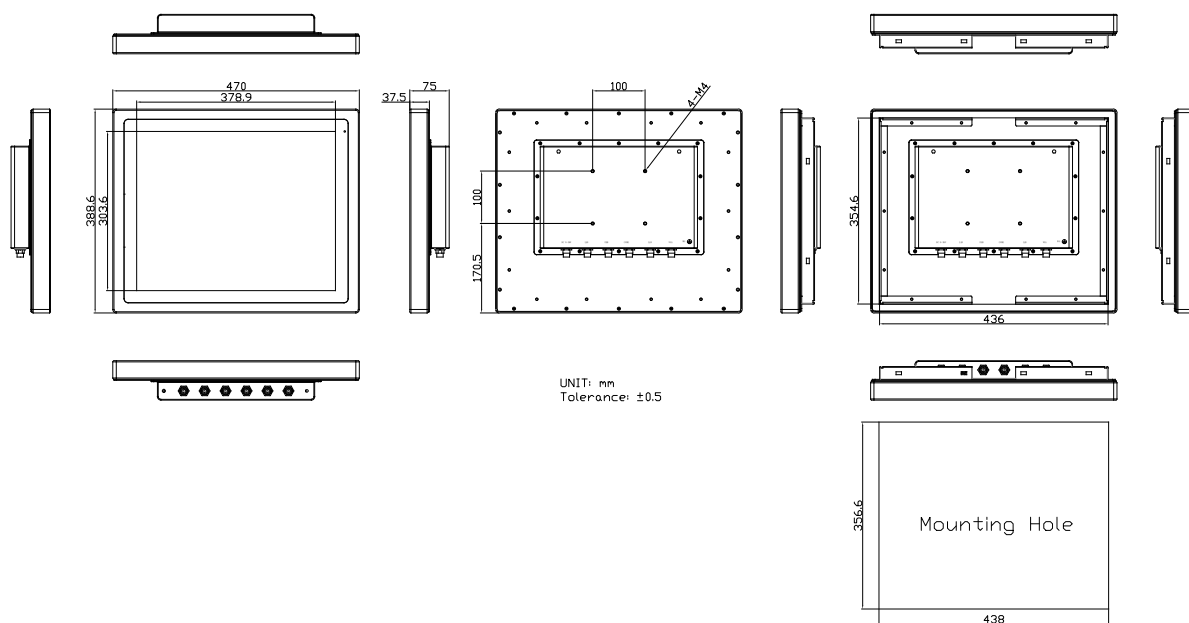
unit:mm

## Ordering information

| Model NO.  | Description                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AEX-915AP  | 15" XGA Fanless PC with Intel 6 <sup>th</sup> Core i Processor, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316                  |
| AEX-915APH | 15" XGA Fanless PC with Intel 6 <sup>th</sup> Core i Processor, High brightness, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316 |
| AEX-916AP  | 15.6" Full HD Fanless PC with Intel 6 <sup>th</sup> Core i Processor, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316            |

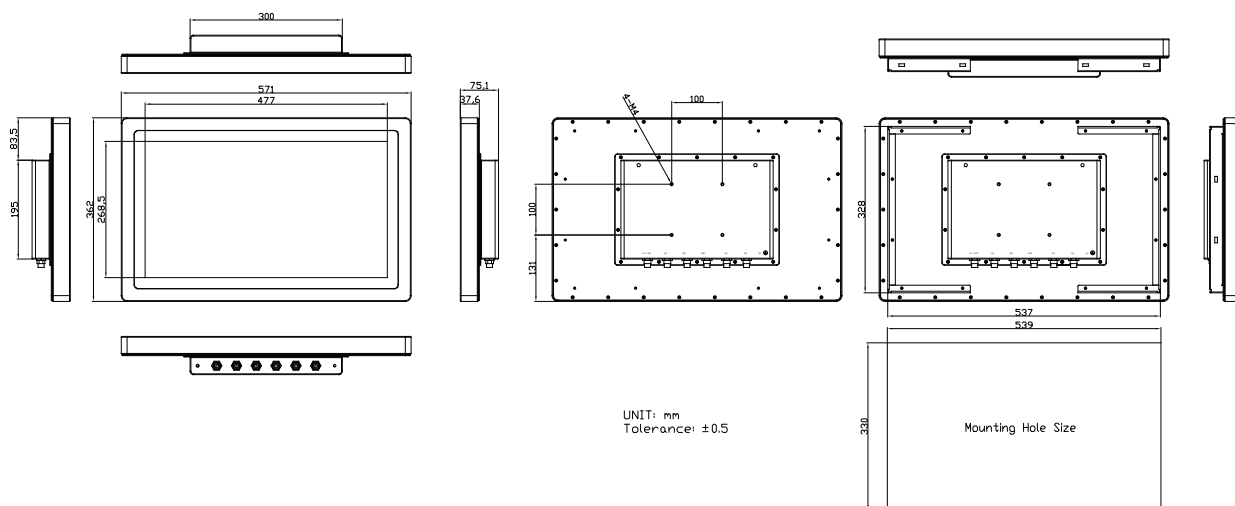


## AEx-919AP AEx-919APH



unit:mm

## AEx-921AP



unit:mm

## Ordering information

| Model NO.         | Description                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AEx-919AP</b>  | 19" SXGA Fanless PC with Intel 6 <sup>th</sup> Core i Processor, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316                  |
| <b>AEx-919APH</b> | 19" SXGA Fanless PC with Intel 6 <sup>th</sup> Core i Processor, High brightness, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316 |
| <b>AEx-921AP</b>  | 21.5" FHD Fanless PC with Intel 6 <sup>th</sup> Core i Processor, 1 x SO-DIMM DDR4 slots, Projected Capacitive touch, DC 9~36V power input, SS316                 |

All specifications and photos are subject to change without notice.



# AEx-8XXP(H) Series

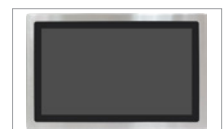
Stainless Steel Panel PC for Hazardous Locations

ATEX/IECEX/C1D2 Certified Panel PC

- Intel Celeron Processor N2930 Processor
- WLAN for Option
- Full Flat Bezel and Fanless Design
- Total IP66 Grade with M12 Waterproof Connector
- Wide Range DC 9~36V Power Input
- Variety of I/O Applications



SUS316 Stainless Steel



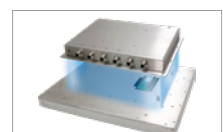
Full Flat Bezel and Fanless Design



Total IP66 Grade with M12 Waterproof Connector



Modular Design



Wide Range DC 9~36V Power Input





## Specifications

| Model Name                | AEx-815P                                                                                                                                                                                                                                                                          | AEX-815PH      | AEX-816P       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| System                    |                                                                                                                                                                                                                                                                                   |                |                |
| Processor                 | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                                                                                                                                                                          |                |                |
| System Chipset            | SoC                                                                                                                                                                                                                                                                               |                |                |
| System Memory             | Onboard 4GB DDR3L SDRAM, 8GB(option)                                                                                                                                                                                                                                              |                |                |
| External I/O              |                                                                                                                                                                                                                                                                                   |                |                |
| USB                       | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |                |                |
| Serial/Parallel           | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |                |                |
| LAN                       | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |                |                |
| Graph                     | 1 x M12 8pin for VGA with waterproof cover and chain                                                                                                                                                                                                                              |                |                |
| Power connector           | 1 x M12 3-pin for DC power connector with waterproof cover and chain                                                                                                                                                                                                              |                |                |
| Storage Space             |                                                                                                                                                                                                                                                                                   |                |                |
| HDD                       | 1 x 2.5" HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |                |                |
| Movable device            | 1 x Internal SD Card slot                                                                                                                                                                                                                                                         |                |                |
| Expansion                 |                                                                                                                                                                                                                                                                                   |                |                |
| Onboard expansion bus     | 1 x Mini-PCle (full size)                                                                                                                                                                                                                                                         |                |                |
| Display                   |                                                                                                                                                                                                                                                                                   |                |                |
| Display type              | 15" TFT-LCD                                                                                                                                                                                                                                                                       | 15" TFT-LCD    | 15.6" TFT-LCD  |
| Max. resolution           | 1024 x 768                                                                                                                                                                                                                                                                        | 1024 x 768     | 1366 x 768     |
| Max. color                | 16.2M/262K                                                                                                                                                                                                                                                                        | 262K           | 16.2M          |
| Luminance(cd/m²)          | 450                                                                                                                                                                                                                                                                               | 1000           | 400            |
| View angle(H°/V°)         | 160/150                                                                                                                                                                                                                                                                           | 160/140        | 160/140        |
| Contrast                  | 800:1                                                                                                                                                                                                                                                                             | 700:1          | 700:1          |
| Backlight lifetime(hrs)   | 70000                                                                                                                                                                                                                                                                             | 50000          | 50000          |
| Touch Screen              |                                                                                                                                                                                                                                                                                   |                |                |
| Type                      | Projected Capacitive                                                                                                                                                                                                                                                              |                |                |
| Interface                 | USB                                                                                                                                                                                                                                                                               |                |                |
| Light transmission(%)     | 90%                                                                                                                                                                                                                                                                               |                |                |
| Power                     |                                                                                                                                                                                                                                                                                   |                |                |
| Power input               | 9~36V DC                                                                                                                                                                                                                                                                          |                |                |
| Power Consumption (TYP.)  | AEx-815P: 19W                                                                                                                                                                                                                                                                     |                | AEx-816P: 23W  |
| Mechanical                |                                                                                                                                                                                                                                                                                   |                |                |
| Construction              | 316 stainless steel chassis                                                                                                                                                                                                                                                       |                |                |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                        |                |                |
| Mounting                  | VESA mount 100 x 100, Panel mount (option)                                                                                                                                                                                                                                        |                |                |
| Dimension(mm)             | 399 x 324 x 70                                                                                                                                                                                                                                                                    | 399 x 324 x 70 | 440 x 290 x 75 |
| Net weight(Kg)            | 9.8                                                                                                                                                                                                                                                                               | 9.8            | 10.0           |
| Environment               |                                                                                                                                                                                                                                                                                   |                |                |
| Operating temperature(°C) | -20~50                                                                                                                                                                                                                                                                            |                |                |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                            |                |                |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |                |                |
| Safety                    | CSA C22.2 No.61010                                                                                                                                                                                                                                                                |                |                |
| Certification             | CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |                |                |
| Operating System Support  |                                                                                                                                                                                                                                                                                   |                |                |
| Windows 10 IoT ENT LTSB   |                                                                                                                                                                                                                                                                                   |                |                |

# AEx-8XXP(H) Series

ATEX/IECEX/C1D2 Certified Panel PC

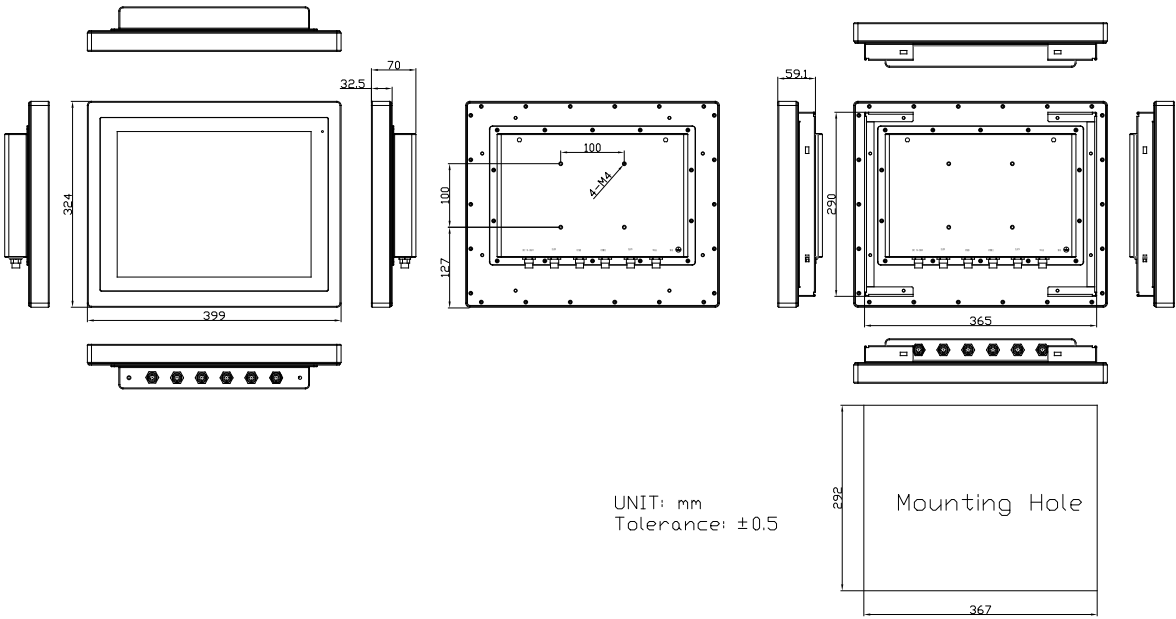


## Specifications

| Model Name                | AEX-819P                                                                                                                                                                                                                                                                          |  | AEX-819PH        |               | AEX-821P         |  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|---------------|------------------|--|
| System                    |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Processor                 | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                                                                                                                                                                          |  |                  |               |                  |  |
| System Chipset            | SoC                                                                                                                                                                                                                                                                               |  |                  |               |                  |  |
| System Memory             | Onboard 4GB DDR3L SDRAM, 8GB(option)                                                                                                                                                                                                                                              |  |                  |               |                  |  |
| External I/O              |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| USB                       | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |  |                  |               |                  |  |
| Serial/Parallel           | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |  |                  |               |                  |  |
| LAN                       | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |  |                  |               |                  |  |
| Graph                     | 1 x M12 8pin for VGA with waterproof cover and chain                                                                                                                                                                                                                              |  |                  |               |                  |  |
| Power connector           | 1 x M12 3-pin for DC power connector with waterproof cover and chain                                                                                                                                                                                                              |  |                  |               |                  |  |
| Storage Space             |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| HDD                       | 1 x 2.5 "HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |  |                  |               |                  |  |
| Movable device            | 1 x Internal SD Card                                                                                                                                                                                                                                                              |  |                  |               |                  |  |
| Expansion                 |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Onboard expansion bus     | 1 x Mini-PCle (full size)                                                                                                                                                                                                                                                         |  |                  |               |                  |  |
| Display                   |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Display type              | 19" TFT-LCD                                                                                                                                                                                                                                                                       |  | 19" TFT-LCD      |               | 21.5" TFT-LCD    |  |
| Max. resolution           | 1280 x 1024                                                                                                                                                                                                                                                                       |  | 1280 x 1024      |               | 1920 x 1080      |  |
| Max. color                | 16.7M                                                                                                                                                                                                                                                                             |  | 16.7M            |               | 16.7M            |  |
| Luminance(cd/m²)          | 350                                                                                                                                                                                                                                                                               |  | 1000             |               | 300              |  |
| View angle(H°/V°)         | 170/160                                                                                                                                                                                                                                                                           |  | 170/160          |               | 178/178          |  |
| Contrast                  | 1000:1                                                                                                                                                                                                                                                                            |  | 1000:1           |               | 3000:1           |  |
| Backlight lifetime(hrs)   | 70000                                                                                                                                                                                                                                                                             |  | 70000            |               | 50000            |  |
| Touch Screen              |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Type                      | Projected Capacitive                                                                                                                                                                                                                                                              |  |                  |               |                  |  |
| Interface                 | USB                                                                                                                                                                                                                                                                               |  |                  |               |                  |  |
| Light transmission(%)     | 90%                                                                                                                                                                                                                                                                               |  |                  |               |                  |  |
| Power                     |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Power input               | 9~36V DC                                                                                                                                                                                                                                                                          |  |                  |               |                  |  |
| Power Consumption (TYP.)  | AEx-819P: 24W                                                                                                                                                                                                                                                                     |  |                  | AEx-821P: 35W |                  |  |
| Mechanical                |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Construction              | 316 stainless steel chassis                                                                                                                                                                                                                                                       |  |                  |               |                  |  |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                        |  |                  |               |                  |  |
| Mounting                  | VESA mount 100 x 100, Panel mount (option)                                                                                                                                                                                                                                        |  |                  |               |                  |  |
| Dimension(mm)             | 470 x 388.6 x 75                                                                                                                                                                                                                                                                  |  | 470 x 388.6 x 75 |               | 571 x 362 x 75.1 |  |
| Net weight(Kg)            | 12.3                                                                                                                                                                                                                                                                              |  | 12.3             |               | 12.6             |  |
| Environment               |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Operating temperature(°C) | -20~50                                                                                                                                                                                                                                                                            |  |                  |               |                  |  |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                            |  |                  |               |                  |  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |  |                  |               |                  |  |
| Safety                    | CSA C22.2 No.61010                                                                                                                                                                                                                                                                |  |                  |               |                  |  |
| Certification             | CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |  |                  |               |                  |  |
| Operating System Support  |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |
| Windows 10 IoT ENT LTSC   |                                                                                                                                                                                                                                                                                   |  |                  |               |                  |  |

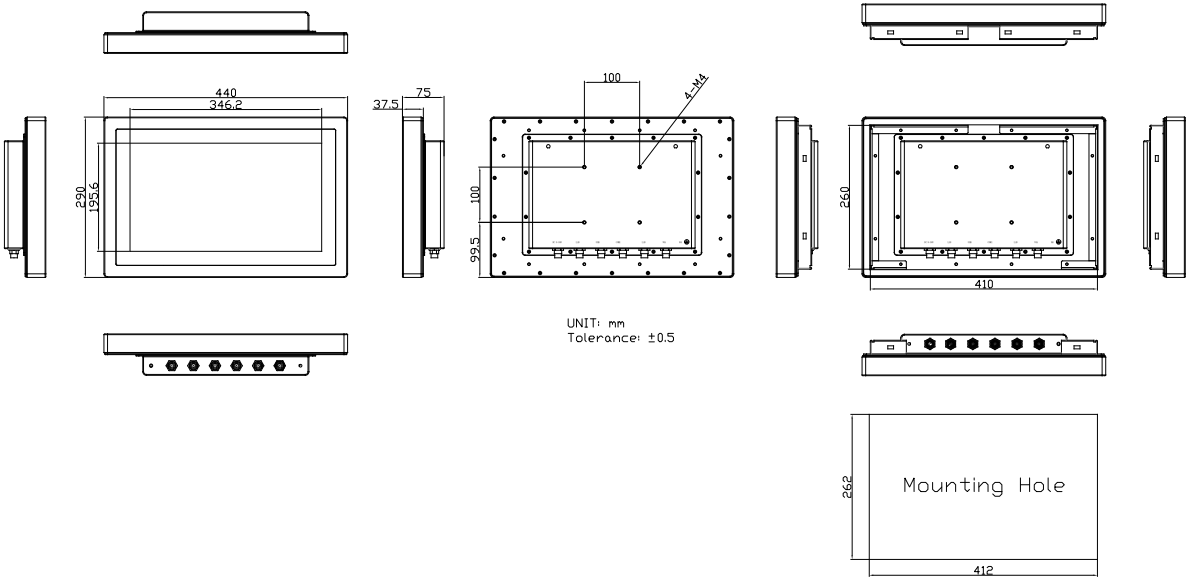


AEx-815P  
AEx-815PH



unit:mm

AEx-816P



unit:mm

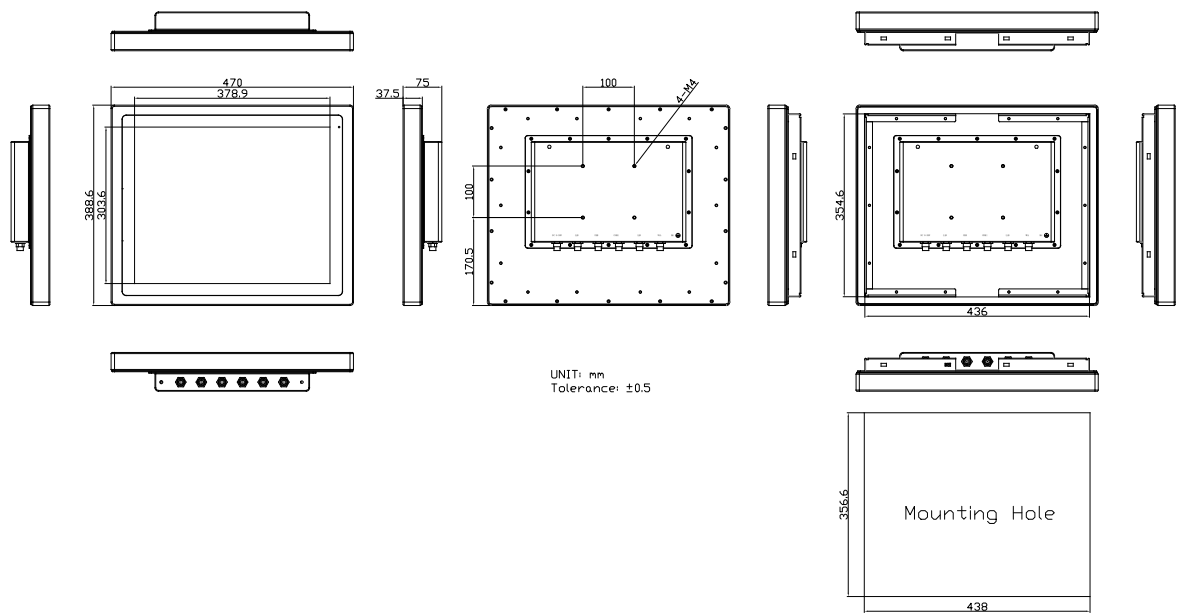
Ordering information

| Model NO. | Description                                                                                                                            |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|
| AEX-815P  | 15" XGA Fanless PC with Intel N2930 Processor, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316                  |
| AEX-815PH | 15" XGA Fanless PC with Intel N2930 Processor, High brightness, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316 |
| AEX-816P  | 16" Full HD Fanless PC with Intel N2930 Processor, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316              |

# AEx-8XXP(H) Series

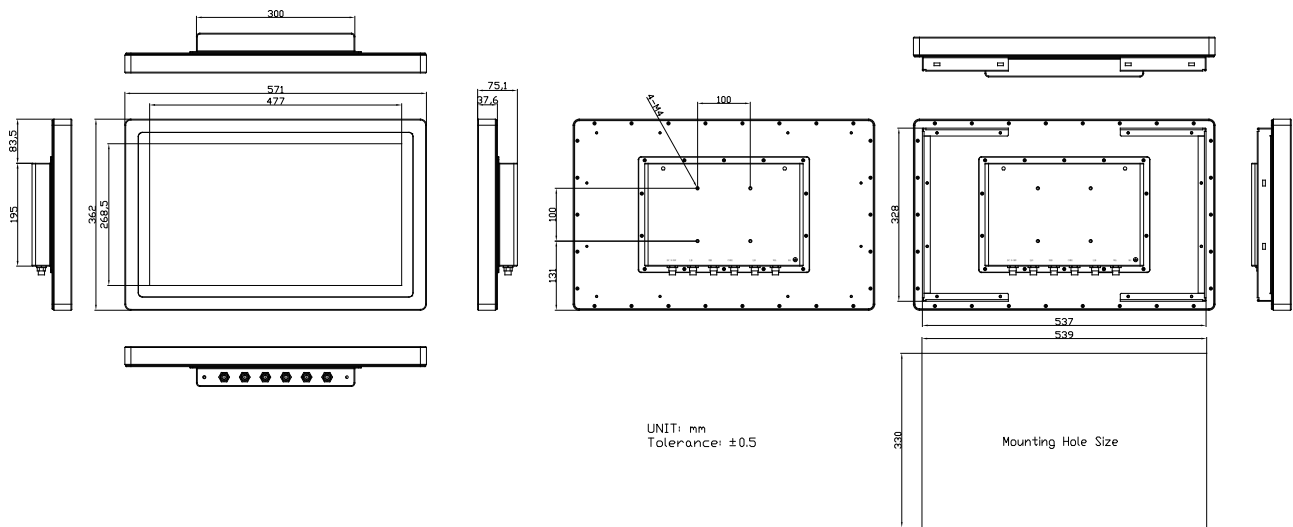
ATEX/IECEX/C1D2 Certified Panel PC

## AEx-819P AEx-819PH



unit:mm

## AEx-821P AEx-821PH



unit:mm

## Ordering information

| Model NO. | Description                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| AEX-819P  | 19" SXGA Fanless PC with Intel N2930 Processor, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316                  |
| AEX-819PH | 19" SXGA Fanless PC with Intel N2930 Processor, High brightness, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316 |
| AEX-821P  | 21.5" FHD Fanless PC with Intel N2930 Processor, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V power input, SS316                 |



# APC-3X94P/R Series

IP66/IP69K Waterproof

Intel® Celeron N2930 Panel PC

- Intel® Celeron® Processor N2930 CPU
- Fanless Design
- Projected Capacitive Touch
- Resistive Touch
- Wide Range DC 9~36V Input



Fanless Design  
Slim and Compact



Projected Capacitive  
Touch and Resistive  
touch, Support Multi  
Touch



IP66/IP69K Rated  
with M12 Connectors



Great Stainless Steel  
Workmanship  
and full flat bezel design

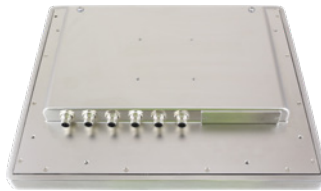


Wide operating  
temperature -20~60°C  
(option with Industrial  
Storage)



# APC-3X94P/R Series

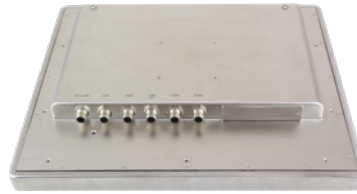
Intel® Celeron N2930 Panel PC



## Specifications

| Model Name                                                            | APC-3594P                                                                                                                            |                        | APC-3594R |  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|--|
| System                                                                |                                                                                                                                      |                        |           |  |
| Processor                                                             | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                             |                        |           |  |
| System Chipset                                                        | SoC                                                                                                                                  |                        |           |  |
| System Memory                                                         | Onboard 4GB DDR3L SDRAM                                                                                                              |                        |           |  |
| External I/O                                                          |                                                                                                                                      |                        |           |  |
| USB                                                                   | 1 x M12 8-pin for 1 x USB 3.0 with waterproof cover<br>1 x M12 8pin for 2 x USB 2.0 with waterproof cover                            |                        |           |  |
| Serial/Parallel                                                       | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232 with waterproof cover<br>1 x M12 8-pin for COM2, RS-232 with waterproof cover |                        |           |  |
| LAN                                                                   | 1 x M12 8-pin for GbE LAN with waterproof cover                                                                                      |                        |           |  |
| Power connector                                                       | 1 x M12 3-pin for DC power connector with waterproof cover                                                                           |                        |           |  |
| Storage Space                                                         |                                                                                                                                      |                        |           |  |
| HDD                                                                   | 1 x 2.5" SATA2 (Easy Accessible design)                                                                                              |                        |           |  |
| Movable device                                                        | 1 x Internal SD slot on board                                                                                                        |                        |           |  |
| Expansion                                                             |                                                                                                                                      |                        |           |  |
| Onboard expansion bus                                                 | 1 x Mini PCIe full size<br>For optional WLAN/BT Module and Antenna at rear side                                                      |                        |           |  |
| Expansion Slot                                                        | None                                                                                                                                 |                        |           |  |
| Display                                                               |                                                                                                                                      |                        |           |  |
| Display type                                                          | 15" TFT-LCD                                                                                                                          | 15" TFT-LCD            |           |  |
| Max. resolution                                                       | 1024 x 768                                                                                                                           | 1024 x 768             |           |  |
| Max. color                                                            | 16.2M                                                                                                                                | 16.2M                  |           |  |
| Luminance(cd/m²)                                                      | 300                                                                                                                                  | 300                    |           |  |
| View angle(H°/V°)                                                     | 176/176                                                                                                                              | 176/176                |           |  |
| Contrast                                                              | 2000:1                                                                                                                               | 2000:1                 |           |  |
| Backlight lifetime(hrs)                                               | 50000                                                                                                                                | 50000                  |           |  |
| Touch Screen                                                          |                                                                                                                                      |                        |           |  |
| Type                                                                  | Projected Capacitive Touch                                                                                                           | Resistive Touch Window |           |  |
| Interface                                                             | USB                                                                                                                                  |                        |           |  |
| Light transmission(%)                                                 | 90%                                                                                                                                  | 80%                    |           |  |
| Power                                                                 |                                                                                                                                      |                        |           |  |
| Power input                                                           | 9~36V DC                                                                                                                             |                        |           |  |
| Power Consumption (TYP.)                                              | APC-3594P: 17W                                                                                                                       | APC-3594R: 16W         |           |  |
| Mechanical                                                            |                                                                                                                                      |                        |           |  |
| Construction                                                          | Stainless steel                                                                                                                      |                        |           |  |
| IP rating                                                             | Total IP66/IP69K                                                                                                                     |                        |           |  |
| Mounting                                                              | Penel Mount, VESA mount 75 x 75<br>Optional Wall Mount Kit                                                                           |                        |           |  |
| Dimension(mm)                                                         | 399 x 324 x 58.8                                                                                                                     |                        |           |  |
| Net weight(Kg)                                                        | 5.3                                                                                                                                  |                        |           |  |
| Environment                                                           |                                                                                                                                      |                        |           |  |
| Operating temperature(°C)                                             | 0~50<br>-20~60 (with Industrial Storage)                                                                                             |                        |           |  |
| Storage temperature(°C)                                               | -30~70                                                                                                                               |                        |           |  |
| Humidity                                                              | 10 to 95% @ 40°C, non- condensing                                                                                                    |                        |           |  |
| Certification                                                         | CE/FCC Class A                                                                                                                       |                        |           |  |
| Operating System Support                                              |                                                                                                                                      |                        |           |  |
| Windows embedded 7<br>Windows embedded 8.1<br>Windows 10 IoT ENT LTSB |                                                                                                                                      |                        |           |  |





## Specifications

| Model Name                                                            | APC-3794P                                                                                                                            | APC-3794R              |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| System                                                                |                                                                                                                                      |                        |
| Processor                                                             | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                             |                        |
| System Chipset                                                        | SoC                                                                                                                                  |                        |
| System Memory                                                         | Onboard 4GB DDR3L SDRAM                                                                                                              |                        |
| External I/O                                                          |                                                                                                                                      |                        |
| USB                                                                   | 1 x M12 8-pin for 1 x USB 3.0 with waterproof cover<br>1 x M12 8pin for 2 x USB 2.0 with waterproof cover                            |                        |
| Serial/Parallel                                                       | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232 with waterproof cover<br>1 x M12 8-pin for COM2, RS-232 with waterproof cover |                        |
| LAN                                                                   | 1 x M12 8-pin for GbE LAN with waterproof cover                                                                                      |                        |
| Power connector                                                       | 1 x M12 3-pin for DC power connector with waterproof cover                                                                           |                        |
| Storage Space                                                         |                                                                                                                                      |                        |
| HDD                                                                   | 1 x 2.5” SATA2 (Easy Accessible design)                                                                                              |                        |
| Movable device                                                        | 1 x Internal SD slot on board                                                                                                        |                        |
| Expansion                                                             |                                                                                                                                      |                        |
| Onboard expansion bus                                                 | 1 x Mini PCIe full size<br>For optional WLAN/BT Module and Antenna at rear side                                                      |                        |
| Expansion Slot                                                        | None                                                                                                                                 |                        |
| Display                                                               |                                                                                                                                      |                        |
| Display type                                                          | 17" TFT-LCD                                                                                                                          | 17" TFT-LCD            |
| Max. resolution                                                       | 1280 x 1024                                                                                                                          | 1280 x 1204            |
| Max. color                                                            | 16.2M                                                                                                                                | 16.2M                  |
| Luminance(cd/m²)                                                      | 350                                                                                                                                  | 350                    |
| View angle(H°/V°)                                                     | 160/140                                                                                                                              | 160/140                |
| Contrast                                                              | 1000:1                                                                                                                               | 1000:1                 |
| Backlight lifetime(hrs)                                               | 50000                                                                                                                                | 50000                  |
| Touch Screen                                                          |                                                                                                                                      |                        |
| Type                                                                  | Projected Capacitive Touch                                                                                                           | Resistive Touch Window |
| Interface                                                             | USB                                                                                                                                  |                        |
| Light transmission(%)                                                 | 90%                                                                                                                                  | 80%                    |
| Power                                                                 |                                                                                                                                      |                        |
| Power input                                                           | 9~36V DC                                                                                                                             |                        |
| Power Consumption (TYP.)                                              | APC-3794P: 27W                                                                                                                       | APC-3794R: 25W         |
| Mechanical                                                            |                                                                                                                                      |                        |
| Construction                                                          | Stainless steel                                                                                                                      |                        |
| IP rating                                                             | Total IP66/IP69K                                                                                                                     |                        |
| Mounting                                                              | Penel Mount, VESA mount 75 x 75<br>Optional Wall Mount Kit                                                                           |                        |
| Dimension(mm)                                                         | 432 x 358 x 58.8                                                                                                                     |                        |
| Net weight(Kg)                                                        | 7.2                                                                                                                                  |                        |
| Environment                                                           |                                                                                                                                      |                        |
| Operating temperature(°C)                                             | 0~50<br>-20~60 (with Industrial Storage)                                                                                             |                        |
| Storage temperature(°C)                                               | -30~70                                                                                                                               |                        |
| Humidity                                                              | 10 to 95% @ 40°C, non- condensing                                                                                                    |                        |
| Certification                                                         | CE/FCC Class A                                                                                                                       |                        |
| Operating System Support                                              |                                                                                                                                      |                        |
| Windows embedded 7<br>Windows embedded 8.1<br>Windows 10 IoT ENT LTSC |                                                                                                                                      |                        |

# APC-3X94P/R Series

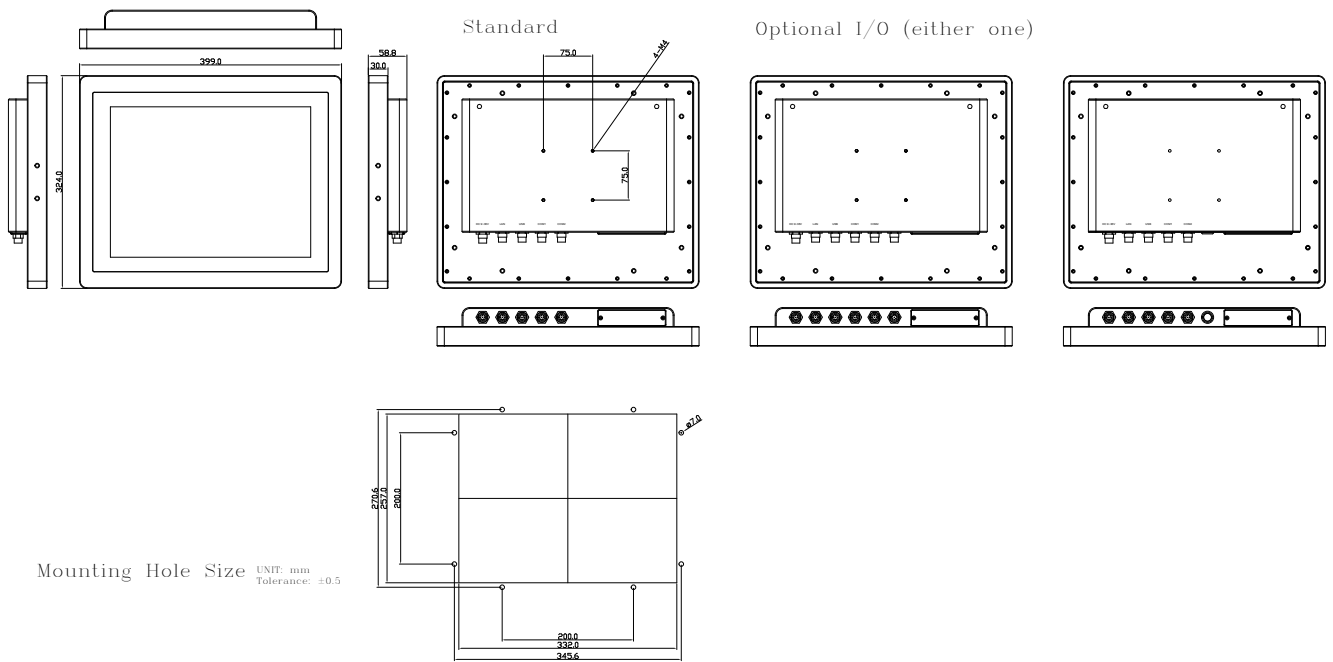
Intel® Celeron N2930 Panel PC



## Specifications

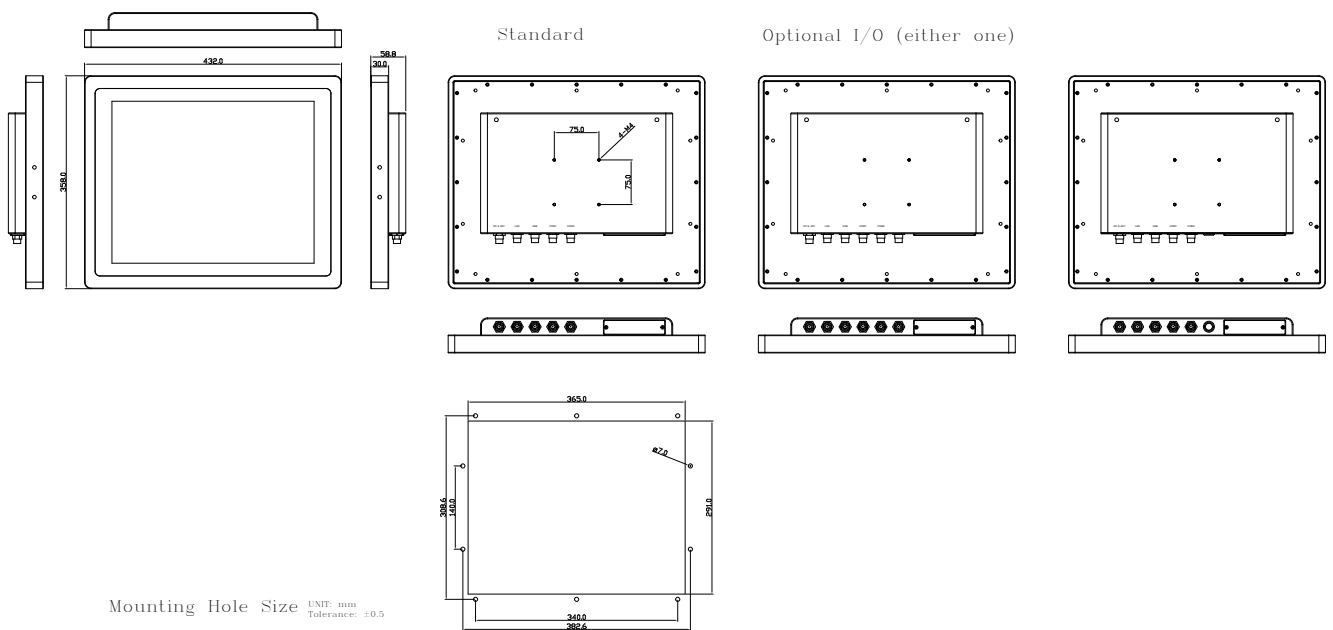
| Model Name                                                            | APC-3994P                                                                                                                            |  | APC-3994R              |  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| System                                                                |                                                                                                                                      |  |                        |  |
| Processor                                                             | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                             |  |                        |  |
| System Chipset                                                        | SoC                                                                                                                                  |  |                        |  |
| System Memory                                                         | Onboard 4GB DDR3L SDRAM                                                                                                              |  |                        |  |
| External I/O                                                          |                                                                                                                                      |  |                        |  |
| USB                                                                   | 1 x M12 8-pin for 1 x USB 3.0 with waterproof cover<br>1 x M12 8pin for 2 x USB 2.0 with waterproof cover                            |  |                        |  |
| Serial/Parallel                                                       | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232 with waterproof cover<br>1 x M12 8-pin for COM2, RS-232 with waterproof cover |  |                        |  |
| LAN                                                                   | 1 x M12 8-pin for GbE LAN with waterproof cover                                                                                      |  |                        |  |
| Power connector                                                       | 1 x M12 3-pin for DC power connector with waterproof cover                                                                           |  |                        |  |
| Storage Space                                                         |                                                                                                                                      |  |                        |  |
| HDD                                                                   | 1 x 2.5” SATA2 (Easy Accessible design)                                                                                              |  |                        |  |
| Movable device                                                        | 1 x Internal SD slot on board                                                                                                        |  |                        |  |
| Expansion                                                             |                                                                                                                                      |  |                        |  |
| Onboard expansion bus                                                 | 1 x Mini PCIe full size<br>For optional WLAN/BT Module and Antenna at rear side                                                      |  |                        |  |
| Expansion Slot                                                        | None                                                                                                                                 |  |                        |  |
| Display                                                               |                                                                                                                                      |  |                        |  |
| Display type                                                          | 19" TFT-LCD                                                                                                                          |  | 19" TFT-LCD            |  |
| Max. resolution                                                       | 1280 x 1024                                                                                                                          |  | 1280 x 1024            |  |
| Max. color                                                            | 16.7M                                                                                                                                |  | 16.7M                  |  |
| Luminance(cd/m²)                                                      | 350                                                                                                                                  |  | 350                    |  |
| View angle(H°/V°)                                                     | 170/160                                                                                                                              |  | 170/160                |  |
| Contrast                                                              | 1000:1                                                                                                                               |  | 1000:1                 |  |
| Backlight lifetime(hrs)                                               | 50000                                                                                                                                |  | 50000                  |  |
| Touch Screen                                                          |                                                                                                                                      |  |                        |  |
| Type                                                                  | Projected Capacitive Touch                                                                                                           |  | Resistive Touch Window |  |
| Interface                                                             | USB                                                                                                                                  |  |                        |  |
| Light transmission(%)                                                 | 90%                                                                                                                                  |  | 80%                    |  |
| Power                                                                 |                                                                                                                                      |  |                        |  |
| Power input                                                           | 9~36V DC                                                                                                                             |  |                        |  |
| Power Consumption (TYP.)                                              | APC-3994P: 26W                                                                                                                       |  | APC-3994R: 25W         |  |
| Mechanical                                                            |                                                                                                                                      |  |                        |  |
| Construction                                                          | Stainless steel                                                                                                                      |  |                        |  |
| IP rating                                                             | Total IP66/IP69K                                                                                                                     |  |                        |  |
| Mounting                                                              | Penel Mount, VESA mount 100 x 100<br>Optional Wall Mount Kit                                                                         |  |                        |  |
| Dimension(mm)                                                         | 470 x 388.6 x 60.8                                                                                                                   |  |                        |  |
| Net weight(Kg)                                                        | 7.6                                                                                                                                  |  |                        |  |
| Environment                                                           |                                                                                                                                      |  |                        |  |
| Operating temperature(°C)                                             | 0~50                                                                                                                                 |  |                        |  |
| Storage temperature(°C)                                               | -30~70                                                                                                                               |  |                        |  |
| Humidity                                                              | 10 to 95% @ 40°C, non- condensing                                                                                                    |  |                        |  |
| Certification                                                         | CE/FCC Class A                                                                                                                       |  |                        |  |
| Operating System Support                                              |                                                                                                                                      |  |                        |  |
| Windows embedded 7<br>Windows embedded 8.1<br>Windows 10 IoT ENT LTSC |                                                                                                                                      |  |                        |  |

## APC-3594P/R



unit:mm

## APC-3794P/R

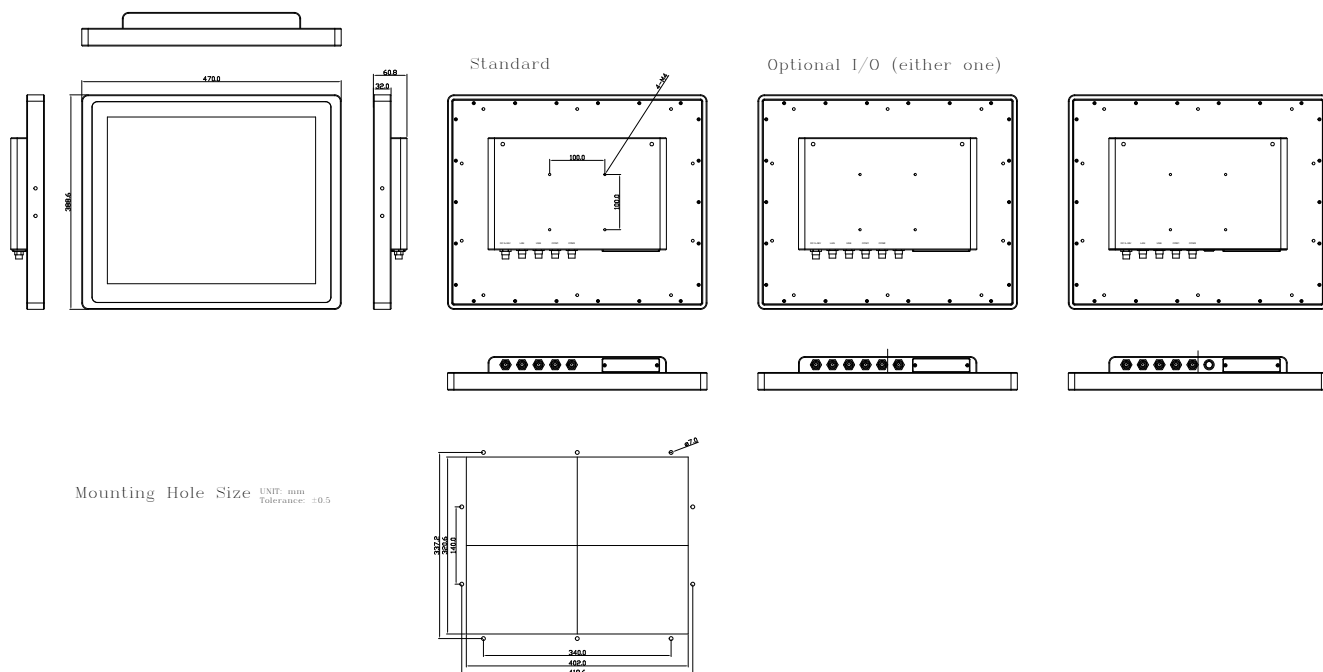


unit:mm

# APC-3X94P/R Series

Intel® Celeron N2930 Panel PC

## APC-3994P/R



unit:mm

## Ordering information

| Model NO.        | Description                                                                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>APC-3594P</b> | 15" XGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with projective capacitive touch, 9~36V DC power input with Adapter, stainless steel enclosure  |
| <b>APC-3594R</b> | 15" XGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with RES. Touch Window, 9~36V DC power input with Adapter, stainless steel enclosure            |
| <b>APC-3794P</b> | 17" SXGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with projective capacitive touch, 9~36V DC power input with Adapter, stainless steel enclosure |
| <b>APC-3794R</b> | 17" SXGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with RES. Touch Window, 9~36V DC power input with Adapter, stainless steel enclosure           |
| <b>APC-3994P</b> | 19" SXGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with projective capacitive touch, 9~36V DC power input with Adapter, stainless steel enclosure |
| <b>APC-3994R</b> | 19" SXGA IP66/IP69K full flat bezel design stainless steel panel PC, Intel Celeron N2930 processor, DDR3L 4G on board, 2.5" SATA2 320GB Industrial HDD, with RES. Touch Window, 9~36V DC power input with Adapter, stainless steel enclosure           |



# Panel PC

As the advancements in big data, factory digitally turns into “Smart” by using self-optimization, self-configuration and even artificial intelligence. Industry 4.0 extends the M2M scale and IoT deployments to further improve monitor and communication within systems, providing the users with real-time system interactions, and brings the much higher level of automation to complete complex tasks.

APLEX's panel PC delivers exceptional computing performance, designed for use in harsh industrial environments. For different application requirements, these product lines provide different water-and dust-proof rated protection such as IP65/IP66/IP69K neither at front panel or whole machine. APLEX's panel PC aims to bring many industries into smart, not only for factory automation but also logistic, in-vehicle management, as well as marine application. APLEX urged to provide comprehensive panel pc solution and push new opportunities and benefits to deliver cost-efficiencies and first-rate quality.



# Quick Guide Industrial Panel PC

| Model Name     | ViPAC-9                                                   | ViPAC-8                                  | APC-3103                   |
|----------------|-----------------------------------------------------------|------------------------------------------|----------------------------|
| CPU            | 6 <sup>TH</sup> /7 <sup>TH</sup> Gen. Intel Core i3/i5/i7 | Intel Celeron N2930                      | Cortex-A53                 |
| Memory         | 2 x DDR4 SO-DIMM                                          | 2 x DDR3L SO-DIMM                        | Onboard 4GB LPDDR4 memory  |
| Touch screen   | Resistive,<br>Projected capacitive touch                  | Resistive,<br>Projected capacitive touch | Projected capacitive touch |
| PCI expansion  | Yes                                                       | Yes                                      | No                         |
| PCIe expansion | Yes                                                       | Yes                                      | No                         |
| Display Size   | 15"/15.6"/17"/21.5"                                       | 15"/15.6"/17"/21.5"                      | 10.1"                      |
| 2 x HDD        | Yes                                                       | No                                       | No                         |
| IP rating      | Front IP66                                                | Front IP66                               | Total IP66                 |

| Model Name     | APC-3082                  | APC-3072                  | OPC-5XX8                                             |
|----------------|---------------------------|---------------------------|------------------------------------------------------|
| CPU            | Intel Atom Baytrail E3845 | Intel Atom Baytrail E3845 | Intel Celeron N2930                                  |
| Memory         | Onboard 4GB DDR3L memory  | Onboard 4GB DDR3L memory  | Onboard 2GB DDR3L 1600MHz<br>4GB(option)             |
| Touch screen   | Resistive                 | Resistive                 | Resistive Touch Window<br>Projected Capacitive Touch |
| PCI expansion  | No                        | No                        | No                                                   |
| PCIe expansion | No                        | No                        | No                                                   |
| Display Size   | 8"                        | 7"                        | 12.1"/15"/15.6"/17"                                  |
| 2 x HDD        | No                        | No                        | No                                                   |
| IP rating      | Total IP66                | Total IP66                | Front IP65                                           |

# VIPAC Series

**New Generation Industrial Panel PC  
For Being Ahead of Industry 4.0 & IIoT**



# Combine Data-acquisition and Archiving, Analysis, Reporting

Automation systems are required more data storage, need to be more user-friendly, be able in the industry to use industrial PCs as automation controllers.

APLEX new generation panel PC mainly focuses on the mainstream industrial control, factory data storage, signal control, surveillance security system.



## High Productivity

Through automation, it increases efficiency that the processes can be implemented without intervention. By x86 based processor ViPAC series enhances the overall performance and efficiency of data transfer processing and system response, and it enables you to produce more within the same amount of time then to save time and money.



## Integration

ViPAC series has integrated input/output functionalities, including standard, optional I/O interface, and rich expansion slot. ViPAC is capable of horizontal and vertical integration through many operations simultaneously, and holistically integrating the entire value chain.



## Connectivity

ViPAC series fast communication enables easier sharing and communication between computer programming and equipment, including WiFi/BT/3G/4G LTE and antenna, as well as embedded RFID. ViPAC series ensures to keep in touch with each part of the operation between basic actuation and advanced control systems.



Control

Remote Monitoring &

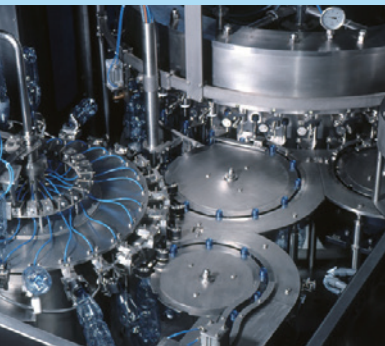


Supervisory Control and Data Acquisition



Visual

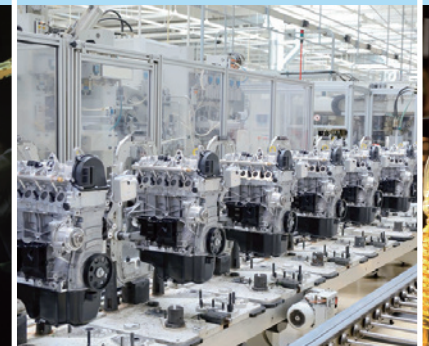
Factory Automation



Surveillance Security System



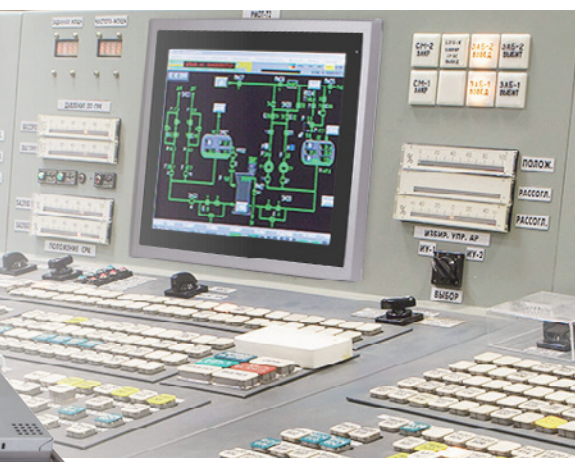
Smart Manufacturing





# and Computing Ability with ng, and Display Capabilities

to communicate with each other and require an open standard. There is an increasing trend  
y automation application, as well as professional applications such as large data collection,



## Flexibility

ViPAC series brings the flexibility to use, and easy and quick servicing and maintenance of products. Its modular design lowers lead time, expanding the capabilities of a hardware solution, it also enables quick and easy upgrades to evolve depends on either technology or user improvement.



## Scalability

ViPAC series scales the industrial control, factory automation application, and professional applications from large data collection and storage, signal control to surveillance security system.

Control Room

& Advanced Controlling



Automation



Data Processing



## Long-term Availability

Continuously produce products to extend the availability and withstand the usage. Provide long-term support for maintenance, repair and upgrade.

Food & Beverage Industry



Warehouse Management



Large Data Collection





# ViPAC Series

15", 15.6", 17", 21.5" TFT LCD Panel PC

**ViPAC series**, comprised of ViPAC-9 and ViPAC-8. These systems are powered by high-performance Intel 6th/7th Gen. Core i3/i5/i7 processors (codename: skylake / kabylake) and Intel Celeron N2930 CPU for different demanding performance requirements. Both series are characterized by Aluminum front bezel with hairline surface design; they are available in either wide screen (16:9) or traditional (4:3) aspect which comes in sizes 15"/15.6"/ 17"/ 21.5" LCD with the resolution up to 1920 x 1080 (Full HD), and 7H anti-scratch surface. This trend-setting panel PC solution is perfectly suitable for all tasks in the industry of PC-based automation.



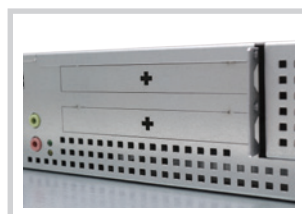
| ViPAC-8 Series                             | ViPAC-9 Series                         |
|--------------------------------------------|----------------------------------------|
| Intel <b>Celeron N2930</b>                 | Intel <b>6th/7th Core i3/i5/i7</b>     |
| Modular Concept with <b>Fanless</b> Design | Modular Concept with <b>Fan</b> Design |



15"~21.5" TFT-LCD



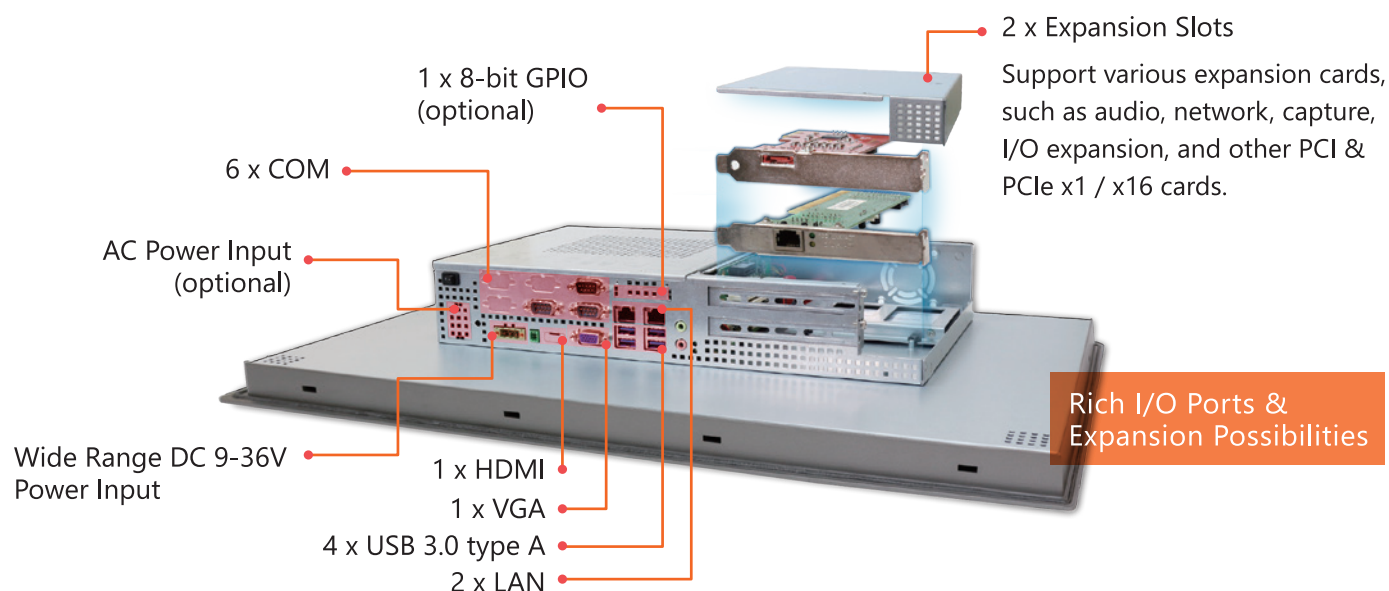
Aluminum Die-Casting Front Bezel with IP66 Support PCT/RTW/AR Glass



2 x Expansion Slots



DC/AC Power Input, Support AT/ATX Mode





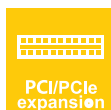
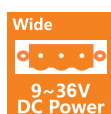


# ViPAC 9XX Series

New Gen. Industrial Intelligent Application Panel PC

Intel 6<sup>th</sup>/7<sup>th</sup> Core i3/i5/i7 Panel PC

- Intel 6<sup>th</sup> /7<sup>th</sup> Core i3/i5/i7 Processor
- With Fan Design
- Projected Capacitive Touch, Resistive Touch Screen and Protection Glass for option
- Front Bezel IP66
- Wide Range DC 9~36V, option AC power input



High Performance and Low Power Consumption Design



Modular Concept



2 x Expansion slot



Easily Accessible Storage Design



Front Bezel IP66



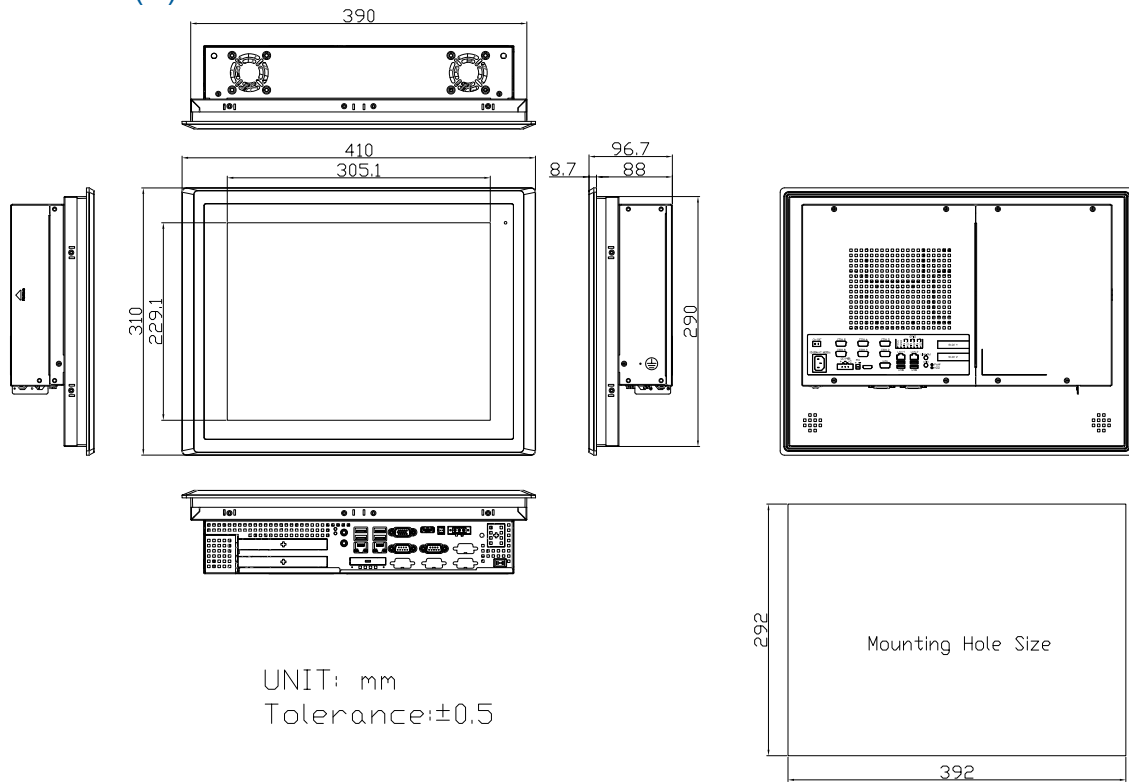
# ViPAC 9XX Series

New Gen. Industrial Intelligent Application Panel PC

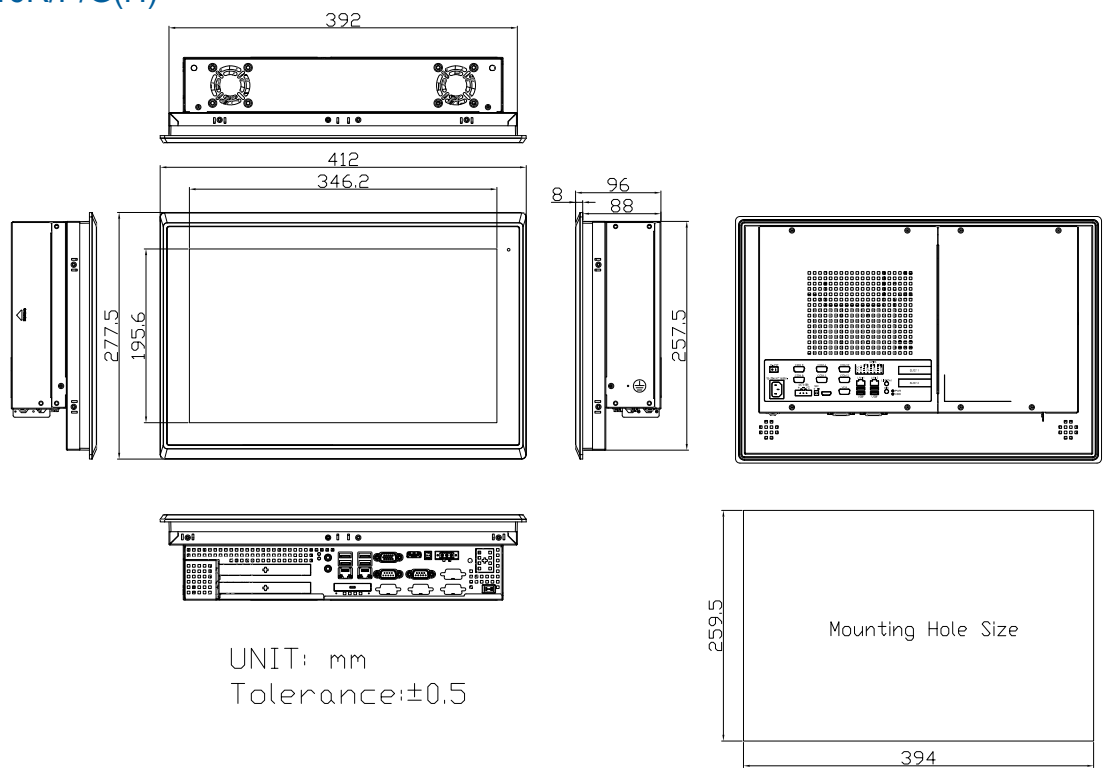


| Model Name                                                        | ViPAC-915R/P/G(H)                                                                                                                                                                                                                      |                 | ViPAC-916R/P/G(H)                   |                 | ViPAC-917R/P/G(H)    |                 | ViPAC-921R/P/G(H)                        |                 |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|-----------------|----------------------|-----------------|------------------------------------------|-----------------|
| System                                                            |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Processor                                                         | Socket H4, 6th/7th Gen Intel Core Processor                                                                                                                                                                                            |                 |                                     |                 |                      |                 |                                          |                 |
| System Chipset                                                    | Intel Q170                                                                                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| System Memory                                                     | 2 x 260-pin SO-DIMM up to 32GB DDR4 2133 MHz SDRAM                                                                                                                                                                                     |                 |                                     |                 |                      |                 |                                          |                 |
| External I/O                                                      |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| USB                                                               | 4 x USB3.0 type A<br>4 x USB 2.0 Type A via TB-546 (option)                                                                                                                                                                            |                 |                                     |                 |                      |                 |                                          |                 |
| Serial/Parallel                                                   | 1 x RS-232/422/485 DB9, default RS-232<br>1 x RS-232 DB9<br>1 x RS-422/485 DB9, default RS-485<br>2 x COM port DB9 (option)                                                                                                            |                 |                                     |                 |                      |                 |                                          |                 |
| LAN                                                               | 2 x GbE LAN RJ45                                                                                                                                                                                                                       |                 |                                     |                 |                      |                 |                                          |                 |
| Graph                                                             | 1 x DB15 VGA, 1 x HDMI with Cover                                                                                                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| Audio                                                             | 1 x Mic-in, 1 x Line-out, 2 x 2W speaker (option)                                                                                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| Digital I/O                                                       | 1 x 8-pin GPIO (3 x DI, 3 x DO, 1 x VCC, 1 x GND) (option)                                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| Others                                                            | None                                                                                                                                                                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| Power connector                                                   | 1 x 2-pin terminal block for external power switch<br>1 x LED indication for HDD<br>1 x LED indication for system<br>1 x LED indication for system at front<br>1 x 3-pin terminal block for power connector<br>1 x Power Switch on/off |                 |                                     |                 |                      |                 |                                          |                 |
| Storage Space                                                     |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| SSD/HDD                                                           | 2 x 2.5" SATA HDD space (Easily Accessible), support RAID 0, 1, 5                                                                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| Expansion                                                         |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Onboard expansion bus                                             | 1 x Full-size Mini PCIe on board(PCle/USB/SATA,SATA by default)<br>1 x SIM slot (option)                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Expansion Slot                                                    | 1 x PCIe x1, 1 x PCIe x16 slot via TB-560P1E11 (default)                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Display                                                           | Standard                                                                                                                                                                                                                               | High Brightness | Standard                            | High Brightness | Standard             | High Brightness | Standard                                 | High Brightness |
| Display type                                                      | 15" TFT-LCD                                                                                                                                                                                                                            |                 | 15.6" TFT-LCD                       |                 | 17" TFT-LCD          |                 | 21.5" TFT-LCD                            |                 |
| Max. resolution                                                   | 1024 x 768                                                                                                                                                                                                                             |                 | 1366 x 768 (1920 x 1080 for option) | 1366 x 768      | 1280 x 1024          |                 | 1920 x 1080                              |                 |
| Max. color                                                        | 16.2M                                                                                                                                                                                                                                  | 16.7M           | 16.7M                               | 16.7M           | 16.2M                | 16.7M           | 16.7M                                    | 16.7M           |
| Luminance(cd/m²)                                                  | 300                                                                                                                                                                                                                                    | 1000            | 400                                 | 1000            | 350                  | 1000            | 250                                      | 1000            |
| View angle(H°/V°)                                                 | 176/176                                                                                                                                                                                                                                | 176/176         | 170/160                             | 160/160         | 170/160              | 160/140         | 178 /178                                 | 178/178         |
| Contrast                                                          | 2000:1                                                                                                                                                                                                                                 | 3000:1          | 500:1                               | 500:1           | 1000:1               | 1000:1          | 3000:1                                   | 3000:1          |
| Backlight lifetime(hrs)                                           | 70000                                                                                                                                                                                                                                  | 70000           | 50000                               | 50000           | 30000                | 50000           | 30000                                    | 50000           |
| Touch Screen                                                      |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Type                                                              | Resistive Touch / Projected Capacitive                                                                                                                                                                                                 |                 |                                     |                 |                      |                 |                                          |                 |
| Interface                                                         | USB                                                                                                                                                                                                                                    |                 |                                     |                 |                      |                 |                                          |                 |
| Light transmission(%)                                             | Resistive Touch : 80% / Projected Capacitive : 90%                                                                                                                                                                                     |                 |                                     |                 |                      |                 |                                          |                 |
| Power                                                             |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Power input                                                       | DC9~36V, AC power input (option)                                                                                                                                                                                                       |                 |                                     |                 |                      |                 |                                          |                 |
| Power Consumption (TYP.)                                          | ViPAC-915P: 35W                                                                                                                                                                                                                        |                 | ViPAC-916P: 35W                     |                 | ViPAC-917P: 39W      |                 | ViPAC-921P: 43W                          |                 |
| Mechanical                                                        |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Construction                                                      | Aluminum die-casting front bezel and steel chassis, Stainless steel front bezel (option)                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| IP rating                                                         | IP66 compliant front bezel                                                                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| Mounting                                                          | Panel mount                                                                                                                                                                                                                            |                 |                                     |                 |                      |                 |                                          |                 |
| Dimension(mm)                                                     | 410 x 310 x 96                                                                                                                                                                                                                         |                 | 412 x 277.5 x 96                    |                 | 439 x 348 x 95       |                 | 557 x 362 x 99                           |                 |
| Net weight(Kg)                                                    | 6.3                                                                                                                                                                                                                                    |                 | 6.5                                 |                 | 7.6                  |                 | 8.7                                      |                 |
| Environment                                                       |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Operating temperature(°C)                                         | 0~50 (-20~60 option)                                                                                                                                                                                                                   |                 | 0~50                                |                 | 0~50 (-20~60 option) |                 | 0~50<br>(0~40 for high brightness model) |                 |
| Storage temperature(°C)                                           | -30~70                                                                                                                                                                                                                                 |                 |                                     |                 |                      |                 |                                          |                 |
| Humidity                                                          | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| Certification                                                     | CE/FCC Class A                                                                                                                                                                                                                         |                 |                                     |                 |                      |                 |                                          |                 |
| Operating System Support                                          |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Windows embedded 7, Windows embedded 8.1, Windows 10 IoT ENT LTSB |                                                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |

## ViPAC-915R/P/G(H)



## ViPAC-916R/P/G(H)



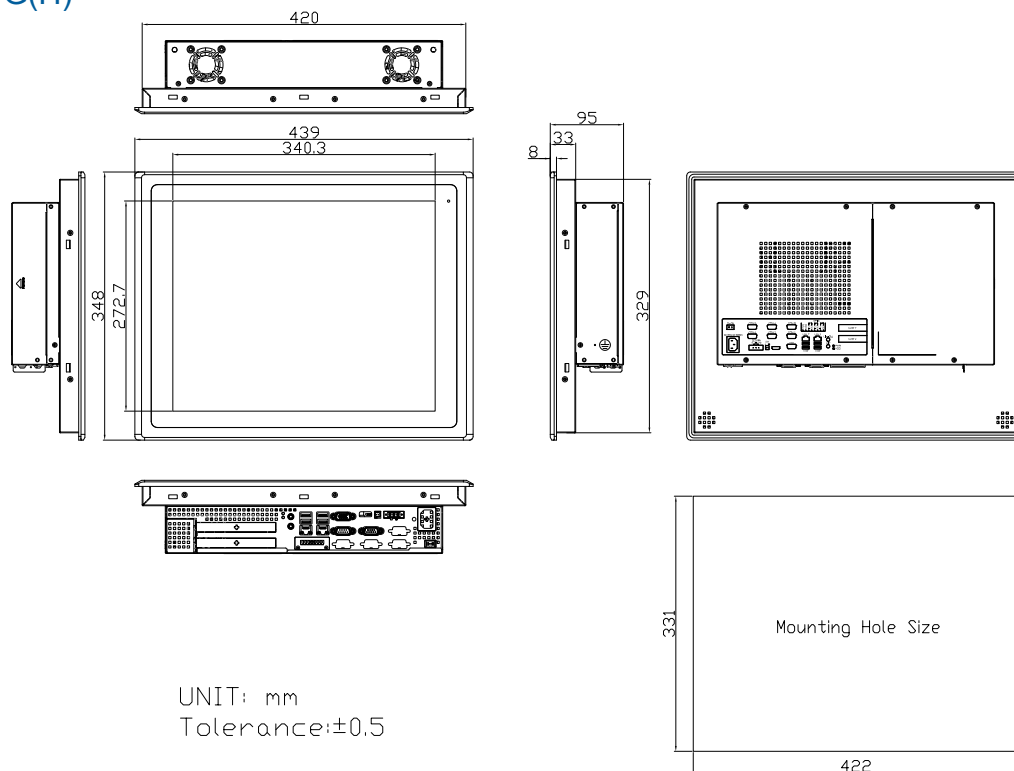
## Ordering information

| Model NO.  | Description                                                                                                                                                                                                                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ViPAC-915R | 15" XGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel.        |
| ViPAC-915P | 15" XGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel.    |
| ViPAC-916R | 15.6" WXGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel.     |
| ViPAC-916P | 15.6" WXGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel. |

# ViPAC 9XX Series

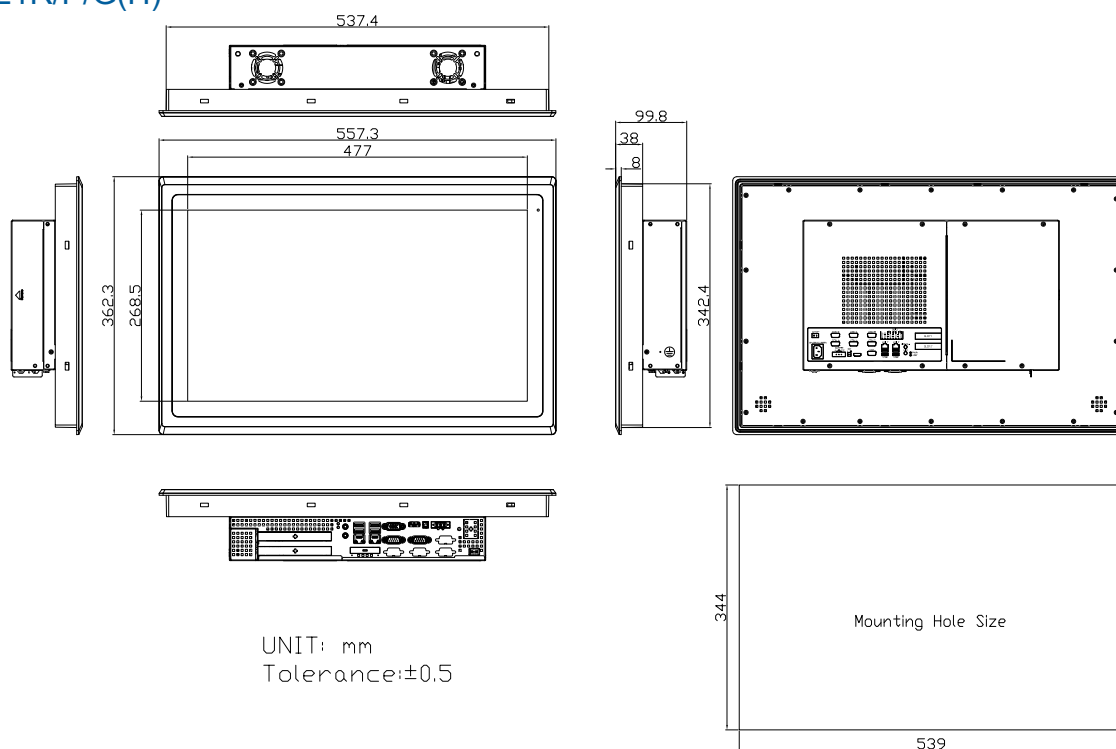
New Gen. Industrial Intelligent Application Panel PC

## ViPAC-917R/P/G(H)



unit:mm

## ViPAC-921R/P/G(H)



unit:mm

## Ordering information

| Model NO.  | Description                                                                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ViPAC-917R | 17" SXGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel.      |
| ViPAC-917P | 17" SXGA Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel.  |
| ViPAC-921R | 21.5" FHD Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel.     |
| ViPAC-921P | 21.5" FHD Intel Core 6th Core i processor with H170 chipset, with Fan design panel PC, 2 x 260pin DDR4 SO-DIMM slot, 2 x 2.5" HDD/SSD space, 1 x PCIe x1 and 1 x PCIe X16 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel. |



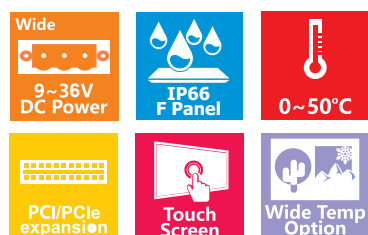


# ViPAC 8XX Series

New Gen. Industrial Intelligent Application Panel PC

Intel Celeron N2930 Panel PC

- Intel Celeron N2930 Processor
- Fanless Design
- Projected Capacitive Touch, Resistive Touch Screen and Protection Glass for option
- Front Bezel IP66
- Wide Range DC 9~36V, option AC Power Input



High Performance and Low Power Consumption Design



Modular Concept



2 x Expansion slot



Easily Accessible Storage Design



Front Bezel IP66



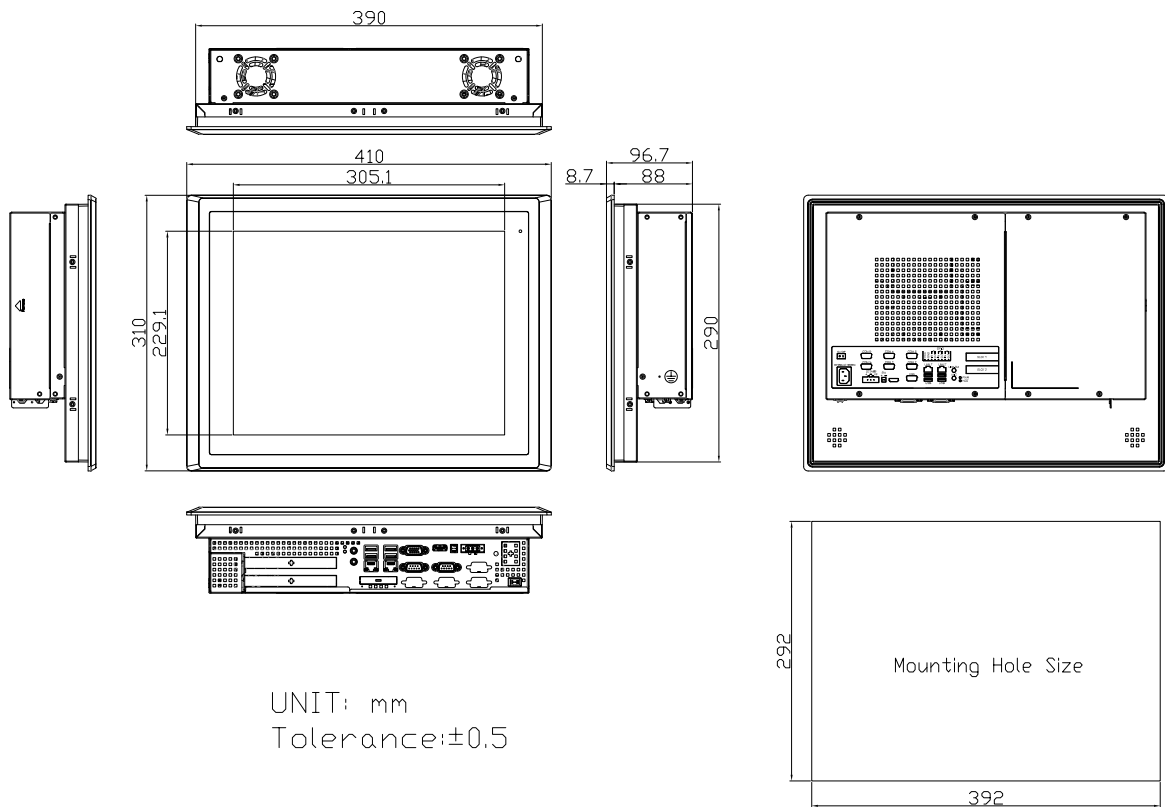
# ViPAC 8XX Series

New Gen. Industrial Intelligent Application Panel PC



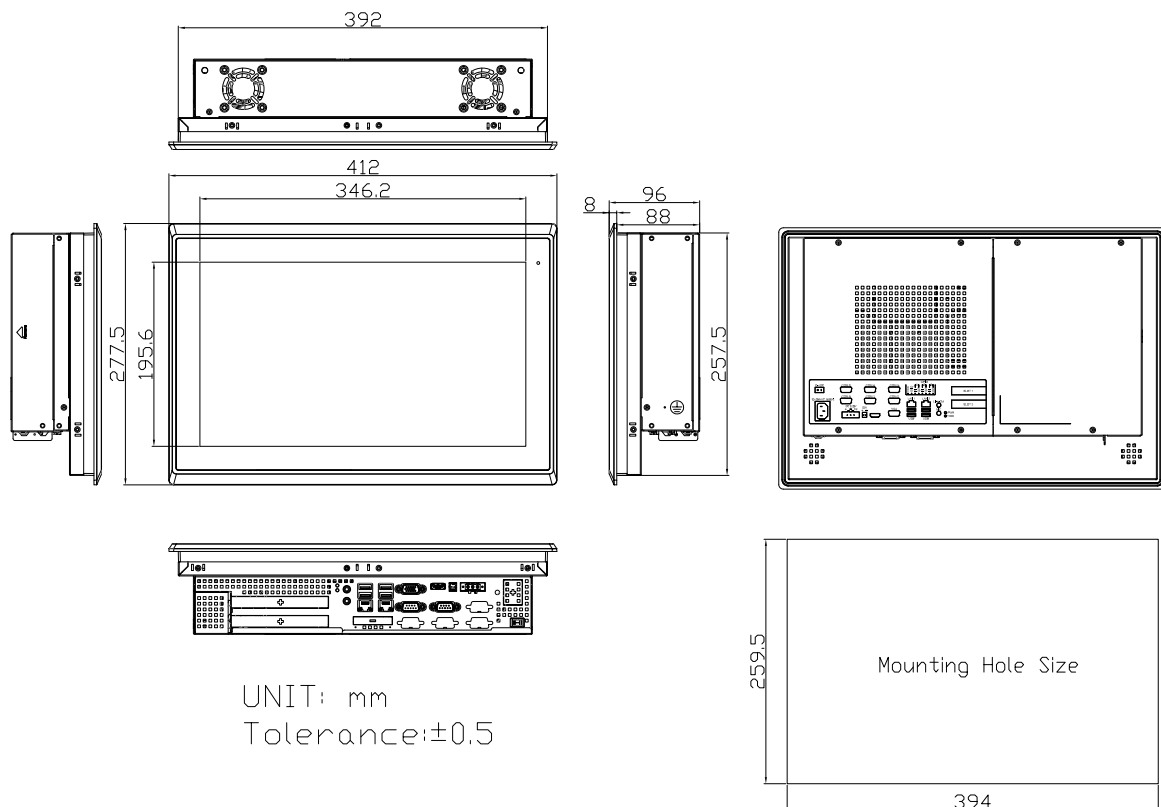
| Model Name                                                        | ViPAC-815R/P/G(H)                                                                                                                                                                                             |                 | ViPAC-816R/P/G(H)                   |                 | ViPAC-817R/P/G(H)    |                 | ViPAC-821R/P/G(H)                        |                 |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------|-----------------|----------------------|-----------------|------------------------------------------|-----------------|
| System                                                            |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Processor                                                         | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| System Chipset                                                    | SoC                                                                                                                                                                                                           |                 |                                     |                 |                      |                 |                                          |                 |
| System Memory                                                     | 2 x 204-pin SO-DIMM up to 8GB DDR3L 1333MHz                                                                                                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| External I/O                                                      |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| USB                                                               | 4 x USB3.0 type A<br>4 x USB 2.0 Type A via TB-546 (option)                                                                                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| Serial/Parallel                                                   | 1 x RS-232/422/485 DB9, default RS-232<br>1 x RS-232 DB9<br>1 x RS-422/485 DB9, default RS-485<br>2 x COM port DB9 (option)                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| LAN                                                               | 2 x GbE LAN RJ45                                                                                                                                                                                              |                 |                                     |                 |                      |                 |                                          |                 |
| Graph                                                             | 1 x DB15 VGA, 1 x HDMI with Cover                                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| Audio                                                             | 1 x Mic-in, 1 x Line-out, 2 x 2W speaker (option)                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| Digital I/O                                                       | 1 x 8-pin GPIO (3 x DI, 3 x DO, 1 x VCC, 1 x GND) (option)                                                                                                                                                    |                 |                                     |                 |                      |                 |                                          |                 |
| Others                                                            | None                                                                                                                                                                                                          |                 |                                     |                 |                      |                 |                                          |                 |
| Power connector                                                   | 1 x 2-pin terminal block for external power switch<br>2 x LED indication for HDD, system<br>1 x LED indication for system at front<br>1 x 3-pin terminal block for power connector<br>1 x Power Switch on/off |                 |                                     |                 |                      |                 |                                          |                 |
| Storage Space                                                     |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| HDD                                                               | 1 x 2.5" SATA HDD space (Easily Accessible)                                                                                                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| Expansion                                                         |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Onboard expansion bus                                             | 1 x Full-size Mini PCIe on board(PCle/USB/SATA,SATA by default)<br>1 x SIM slot (option)                                                                                                                      |                 |                                     |                 |                      |                 |                                          |                 |
| Expansion Slot                                                    | 1 x PCI , 1 x PCIe x1 slot via TB-560P1E11 (default)                                                                                                                                                          |                 |                                     |                 |                      |                 |                                          |                 |
| Display                                                           | Standard                                                                                                                                                                                                      | High Brightness | Standard                            | High Brightness | Standard             | High Brightness | Standard                                 | High Brightness |
| Display type                                                      | 15" TFT-LCD                                                                                                                                                                                                   |                 | 15.6" TFT-LCD                       |                 | 17" TFT-LCD          |                 | 21.5" TFT-LCD                            |                 |
| Max. resolution                                                   | 1024 x 768                                                                                                                                                                                                    |                 | 1366 x 768 (1920 x 1080 for option) | 1366 x 768      | 1280 x 1024          |                 | 1920 x 1080                              |                 |
| Max. color                                                        | 16.2M / 262K                                                                                                                                                                                                  | 16.7M           | 262K / 16.7M                        | 16.7M           | 16.7M                | 16.7M           | 16.7M                                    | 16.7M           |
| Luminance(cd/m²)                                                  | 300                                                                                                                                                                                                           | 1000            | 300                                 | 1000            | 350                  | 1000            | 250                                      | 1000            |
| View angle(H°/V°)                                                 | 176/176                                                                                                                                                                                                       | 160/150         | 160/160                             | 160/160         | 160/140              | 170/160         | 178 /178                                 | 178/178         |
| Contrast                                                          | 2000:1                                                                                                                                                                                                        | 800:1           | 500:1                               | 500:1           | 800:1                | 1000:1          | 3000:1                                   | 3000:1          |
| Backlight lifetime(hrs)                                           | 70000                                                                                                                                                                                                         | 50000           | 50000                               | 50000           | 50000                | 50000           | 30000                                    | 50000           |
| Touch Screen                                                      |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Type                                                              | Resistive Touch / Projected Capacitive                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Interface                                                         | USB                                                                                                                                                                                                           |                 |                                     |                 |                      |                 |                                          |                 |
| Light transmission(%)                                             | Resistive Touch : 80% / Projected Capacitive : 90%                                                                                                                                                            |                 |                                     |                 |                      |                 |                                          |                 |
| Power                                                             |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Power input                                                       | DC9~36V, AC power input (option)                                                                                                                                                                              |                 |                                     |                 |                      |                 |                                          |                 |
| Power Consumption (TYP.)                                          | ViPAC-815P: 17W                                                                                                                                                                                               |                 | ViPAC-816P: 17W                     |                 | ViPAC-817P: 21W      |                 | ViPAC-821P: 24W                          |                 |
| Mechanical                                                        |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Construction                                                      | Aluminum front bezel (default), Stainless steel front bezel (option)                                                                                                                                          |                 |                                     |                 |                      |                 |                                          |                 |
| IP rating                                                         | IP66 compliant front bezel                                                                                                                                                                                    |                 |                                     |                 |                      |                 |                                          |                 |
| Mounting                                                          | Panel mount                                                                                                                                                                                                   |                 |                                     |                 |                      |                 |                                          |                 |
| Dimension(mm)                                                     | 410 x 310 x 96                                                                                                                                                                                                |                 | 412 x 277.5 x 96                    |                 | 439 x 348 x 95       |                 | 557 x 362 x 99                           |                 |
| Net weight(Kg)                                                    | 6.3                                                                                                                                                                                                           |                 | 6.5                                 |                 | 7.0                  |                 | 8.3                                      |                 |
| Environment                                                       |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Operating temperature(°C)                                         | 0~50 (-20~60 option)                                                                                                                                                                                          |                 | 0~50                                |                 | 0~50 (-20~60 option) |                 | 0~50<br>(0~40 for high brightness model) |                 |
| Storage temperature(°C)                                           | -30~70                                                                                                                                                                                                        |                 |                                     |                 |                      |                 |                                          |                 |
| Humidity                                                          | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                             |                 |                                     |                 |                      |                 |                                          |                 |
| Certification                                                     | CE/FCC Class A                                                                                                                                                                                                |                 |                                     |                 |                      |                 |                                          |                 |
| Operating System Support                                          |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |
| Windows embedded 7. Windows embedded 8.1. Windows 10 IoT ENT LTSC |                                                                                                                                                                                                               |                 |                                     |                 |                      |                 |                                          |                 |

## ViPAC-815R/P/G(H)



unit:mm

## ViPAC-816R/P/G(H)

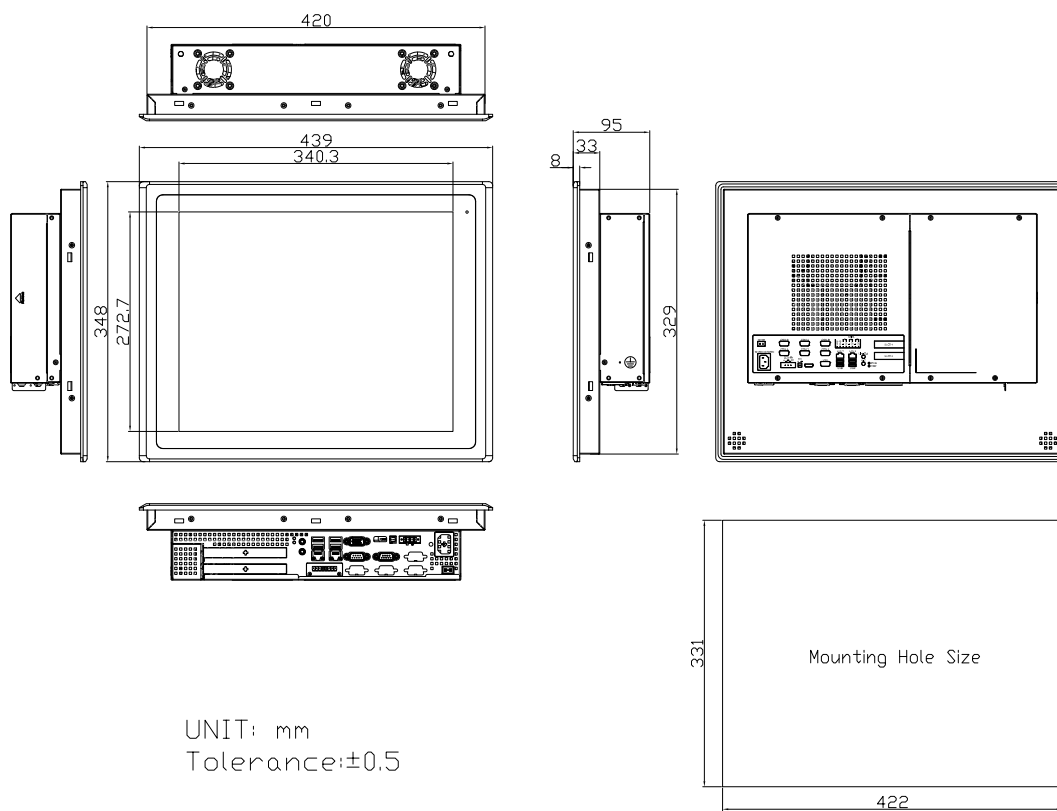


unit:mm

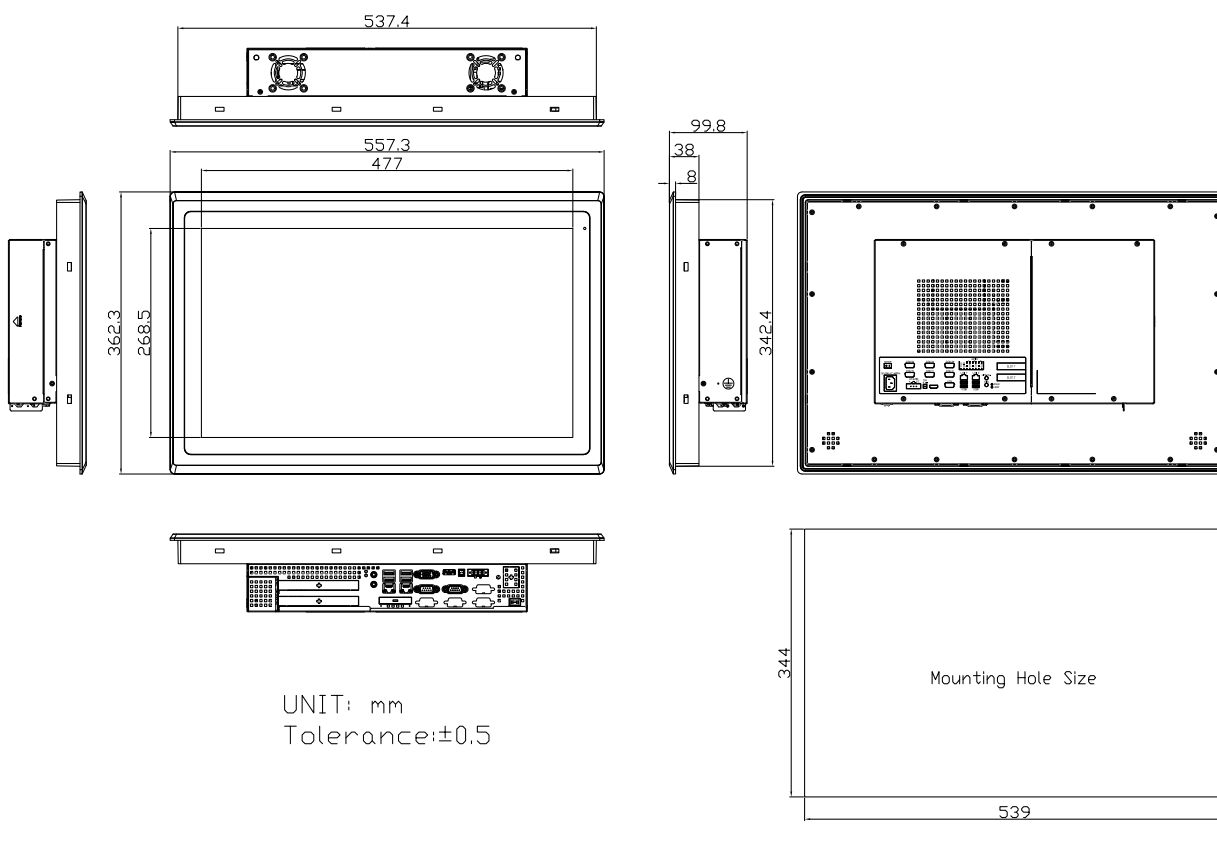
# ViPAC 8XX Series

New Gen. Industrial Intelligent Application Panel PC

## ViPAC-817R/P/G(H)



## ViPAC-821R/P/G(H)



## Ordering information

| Model NO.         | Description                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViPAC-815R</b> | 15" XGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel        |
| <b>ViPAC-815P</b> | 15" XGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel    |
| <b>ViPAC-816R</b> | 15.6" WXGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel     |
| <b>ViPAC-816P</b> | 15.6" WXGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel |
| <b>ViPAC-817R</b> | 17" SXGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel       |
| <b>ViPAC-817P</b> | 17" SXGA Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel   |
| <b>ViPAC-821R</b> | 21.5" FHD Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, resistive touch window, 9~36VDC power input with Adapter, Alu.die-casting front bezel      |
| <b>ViPAC-821P</b> | 21.5" FHD Intel Celeron N2930 (1.83.GHz ) CPU, Fanless panel PC, 2 x 204pin DDR3L SO-DIMM slot, 1 x 2.5" HDD/SSD space, 2 x PCIe X1 slot, projected capacitive touch, 9~36VDC power input with Adapter, Alu.die-casting front bezel  |



# SAE J1939 and ISOBUS In-Vehicle Panel PC Solution

## APC-3103 Series

*Lightweight and Rugged Panel PC  
for Heavy Machinery*





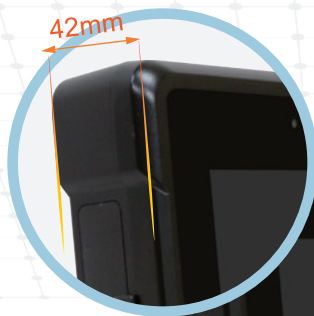
# APC-3103 Series

APC-3103 panel PC series is the solution for heavy machinery. It is designed to be attach great importance to working safety and require high stability, water, dust and strong vibration resistance to be applied to semi-outdoor, harsh and corrosion environments. For example, mining industry, construction site, agriculture industry, warehouse, etc.

## Features

- NXP i.MX8M Quad Plus Processor
- 10.1" TFT-LCD
- Engineering Plastic Construction
- -20~60°C Wide Range Temperature
- Wide Range DC 9~60V Power Input
- Android 10 Operation System

### Slim Panel PC



Ambient Light Sensor (for option)

5MP Camera (for option)

### Side I/O Port

USB2.0 Type-A

Micro SIM

Micro SDXC slot

2W IP66 Speaker

### Flat Front Panel

### Touch Screen Monitor

Projected Capacitive Touch

## Applications



Heavy Equipment



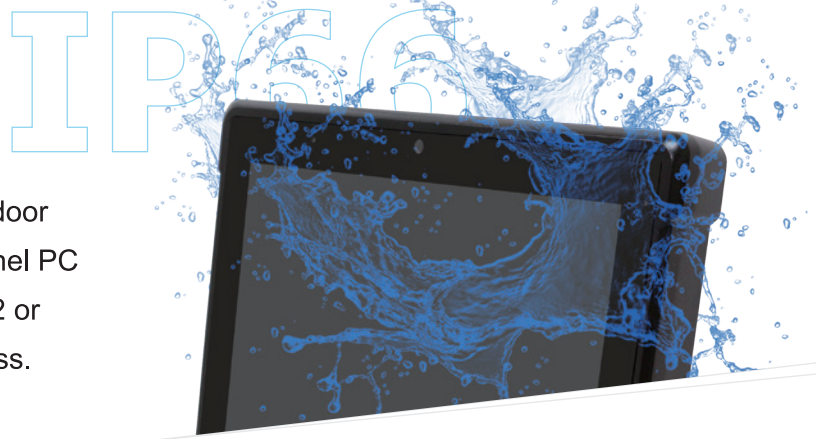
Agriculture Machinery



Forklift

## Total Waterproof

In the warehouse or in heavy industry including indoor and outdoor environments, APLEX's in-vehicle panel PC are total IP66 certified and also equipped with M12 or ISOBUS connectors to resist dust and water ingress.

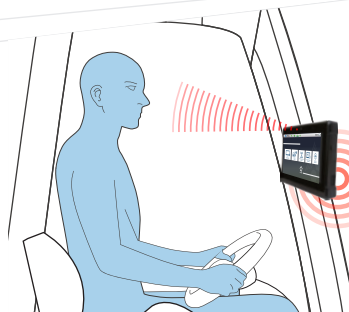


## Rugged Design

APC-3103 series is constructed with lightweight engineering plastic, which has outstanding high temperature stability featuring with rugged and fanless design. It is durable and easy to maintain. Moreover, it has meet MIL-STD-810H for vibration to withstand rough and bumpy road.

## Sunlight Readable Solution

Heavy in-vehicles are mostly being used in outdoor or semi-outdoor. APC-3103 series provides up to 1000 nits of high luminance and optical bonding to reduce reflection for better readability.



## Driver Monitoring Camera

(for option)

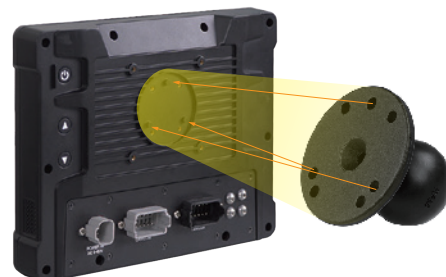
Front camera for driver status monitoring. It will protect driving safety by image detecting and security access controlling. Moreover, it can also communicate with central control and support facial recognition.

## Mounting Applications

To be able to applicate in all kinds of vehicles, APC-3103 series provides two mounting ways, VESA Mount 75 x 75 and RAM Mount.



• VESA Mount



• RAM Mount





## Wireless Connections

Supporting various internet connectivity, including Wi-Fi, Bluetooth, 4G and GPS for real-time communicating as well as fleet and status tracking.

## Functional Keypad

APC-3103 comes in rear programmable keypads (default volume +/-) and one power button to fasten working procedure.



### ACC Control (optional)

ACC will delay the time of power on/off to prevent panel PC from software and hardware damage which caused by sudden shutdown.



### RFID Control (optional)

Driver identification is a helper that can make driver and fleet managing much easier.

## Difference of APC-3103I & APC-3103M

APC-3103I and APC-3103M are respectively different in connectors, the former is equipped with ISOBUS for agriculture machinery and the latter is with M12 connectors for widely usage in heavy-duty in-vehicle applications.

# ISOBUS



### APC-3103I ISOBUS Connectors

Agriculture machinery with [SAE J1939/ ISOBUS](#) communication protocol which communicate data and information between tractors, vehicle, accessory equipment and software.

# M12



### APC-3103M M12 Connectors

M12 connectors protect the system for long-term usage with its' water-resistive and dust-resistive features.



# APC-3103

## Rugged Industrial Panel PC

### Vehicle Management Panel PC

- NXP i.MX8M Quad Plus, 4 x Cortex-A53 1.8 GHz
- Onboard 4GB LPDDR4-3200MHz SDRAM
- Total IP66 with Isolated ISOBUS Connectors
- Mini-PCIe slots for WiFi/GPS/LTE/BT
- Wide Range DC 9~60V Power Input



Wide Range DC 9~60V  
Power Input



Total 6 sides IP66



Isolated ISOBUS  
Connectors



Projected Capacitive  
Touch



Rugged and Fanless  
Design



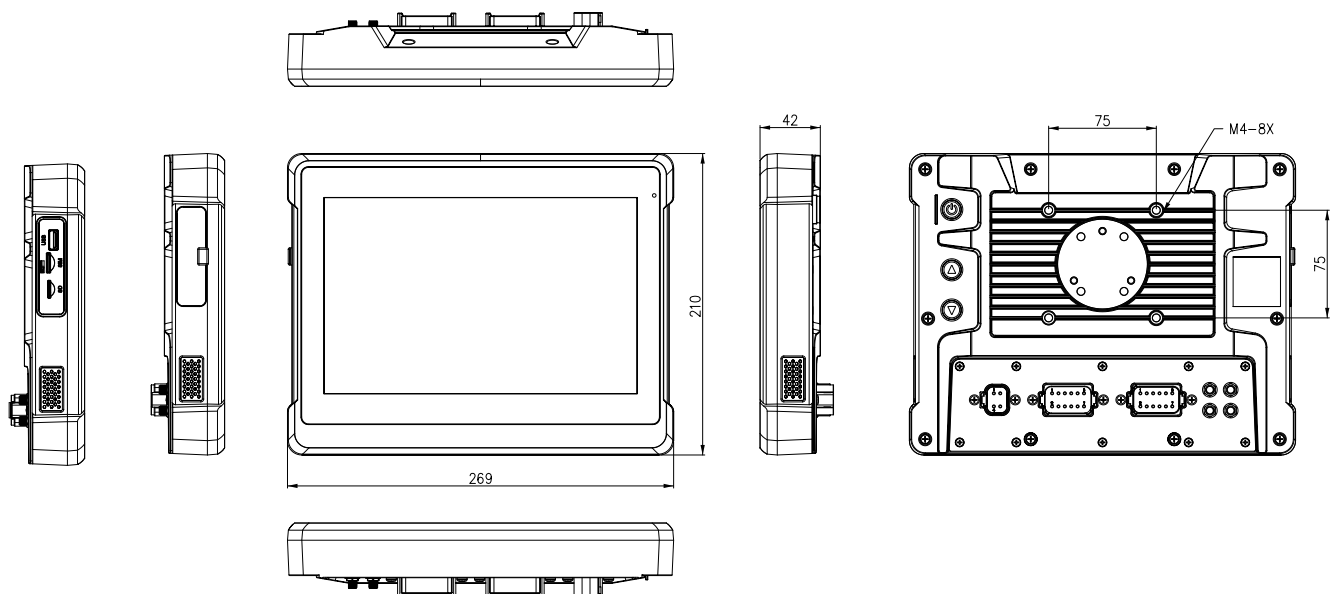




## Specifications

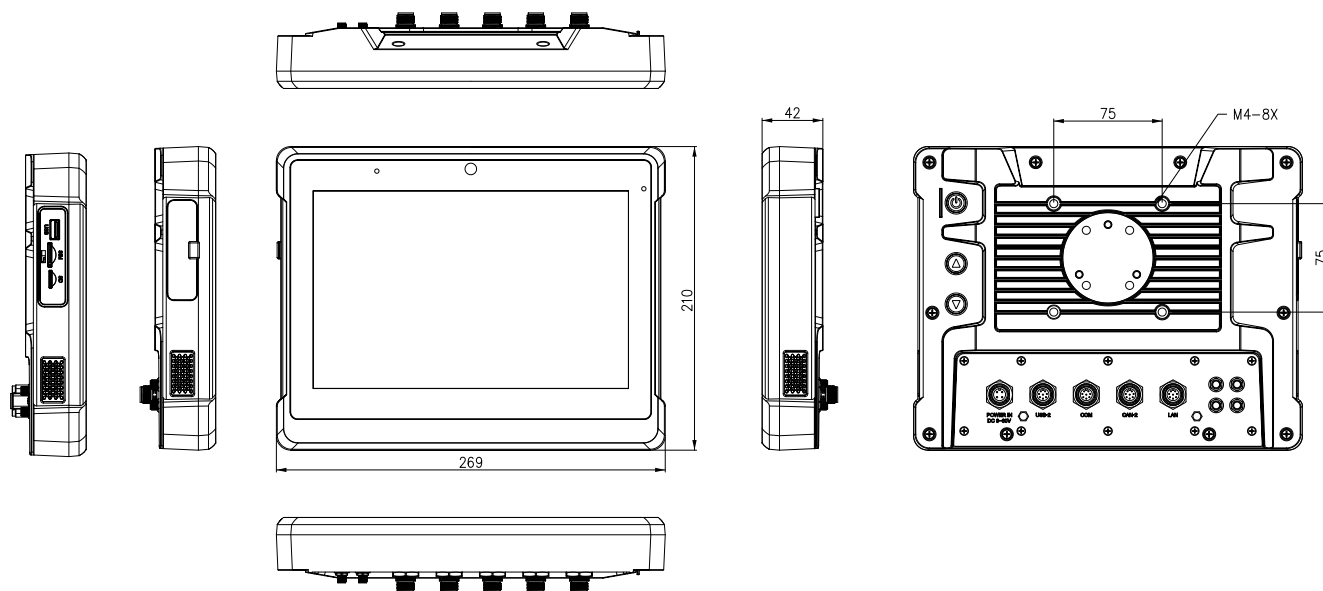
| Model Name                | APC-3103I                                                                                                                                                 |  | APC-3103M                                |  |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|
| System                    |                                                                                                                                                           |  |                                          |  |
| Processor                 | NXP i.MX8M Quad Plus, 4x Cortex-A53 1.8 GHz                                                                                                               |  |                                          |  |
| System Chipset            | SoC                                                                                                                                                       |  |                                          |  |
| System Memory             | Onboard 4GB LPDDR4-3200MHz SDRAM                                                                                                                          |  |                                          |  |
| External I/O              |                                                                                                                                                           |  |                                          |  |
| USB                       | 1 x USB2.0, w/1.5KV isolation protection included in 12-pin DT15-12PB connector                                                                           |  | 1 x M12 Female, 8-pin for 2 x USB2.0     |  |
| Serial/Parallel           | 1 x RS-232/422/485(COM1), w/1.5KV isolation protection included in 12-pin DT15-12PA connector                                                             |  | 1 x M12 Female, 8-pin for RS-232/422/485 |  |
| LAN                       | 1 x GbE LAN included in 12-pin DT15-12PB connector                                                                                                        |  | 1 x M12 Female, 8-pin for 1 x GbE LAN    |  |
| CAN BUS                   | 1 x CAN BUS unclued in 12-pin DT15-12PA connector                                                                                                         |  | 1 x M12 Female, 8-pin for 2-ch CAN BUS   |  |
| Power connector           | 1 x ISOBUS 4-pin DT15-4P connector for 9~60V DC input                                                                                                     |  | 1 x M12 Male, 3-pin for 9~60VDC input    |  |
| Speaker                   | 2 x 2W IP65 speaker                                                                                                                                       |  | 2 x 2W IP65 speaker                      |  |
| Storage Space             |                                                                                                                                                           |  |                                          |  |
| HDD                       | None                                                                                                                                                      |  |                                          |  |
| Storage device            | 1 x Micro SDXC on board<br>32GB eMMC NAND Flash                                                                                                           |  |                                          |  |
| Expansion                 |                                                                                                                                                           |  |                                          |  |
| Onboard expansion bus     | None                                                                                                                                                      |  |                                          |  |
| Expansion slot            | 1 x Full-size mini-PCle socket (USB2.0) for HSUPA/LTE Module (for option)<br>1 x Full-size mini-PCle socket (PCle+USB2.0) for WIFI/BT Module (for option) |  |                                          |  |
| Display                   |                                                                                                                                                           |  |                                          |  |
| Display type              | 10.1" TFT-LCD                                                                                                                                             |  |                                          |  |
| Max. resolution           | 1280 x 800                                                                                                                                                |  |                                          |  |
| Max. color                | 16.7M                                                                                                                                                     |  |                                          |  |
| Luminance(cd/m²)          | 350 nits (1000 nits for option)                                                                                                                           |  |                                          |  |
| View angle(H°/V°)         | 170/170                                                                                                                                                   |  |                                          |  |
| Contrast                  | 800:1                                                                                                                                                     |  |                                          |  |
| Backlight lifetime(hrs)   | 50000                                                                                                                                                     |  |                                          |  |
| Touch Screen              |                                                                                                                                                           |  |                                          |  |
| Type                      | Projected Capacitive Touch                                                                                                                                |  |                                          |  |
| Interface                 | USB                                                                                                                                                       |  |                                          |  |
| Light transmission(%)     | 90%                                                                                                                                                       |  |                                          |  |
| Power                     |                                                                                                                                                           |  |                                          |  |
| Power input               | DC 9~60V                                                                                                                                                  |  |                                          |  |
| Power Consumption         | Max:16W                                                                                                                                                   |  |                                          |  |
| Optional Power            | ACC Ignition function and Delay ON/OFF setting option                                                                                                     |  |                                          |  |
| Mechanical                |                                                                                                                                                           |  |                                          |  |
| Construction              | Engineering Plastic front/rear bezel                                                                                                                      |  |                                          |  |
| IP rating                 | Total IP66                                                                                                                                                |  |                                          |  |
| Mounting                  | Support VESA mount 75 x 75, RAM Mount (2.25" Rubber Ball "D" Size)                                                                                        |  |                                          |  |
| Dimension(mm)             | 269 x 210 x 42                                                                                                                                            |  |                                          |  |
| Net weight(Kg)            | 1.5                                                                                                                                                       |  |                                          |  |
| Environment               |                                                                                                                                                           |  |                                          |  |
| Operating temperature(°C) | 0~50°C, WT1: -20°C~60°C for option, WT2 : -20~70°C for option                                                                                             |  |                                          |  |
| Storage temperature(°C)   | -30~80                                                                                                                                                    |  |                                          |  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                         |  |                                          |  |
| Certification             | CE/FCC Class A, MIL-STD-810H for vibration/Shock, E MARK                                                                                                  |  |                                          |  |
| Operating System Support  |                                                                                                                                                           |  |                                          |  |
| Android 10.0              |                                                                                                                                                           |  |                                          |  |

## APC-3103I



unit:mm

## APC-3103M



unit:mm

## Ordering information

| Model NO.  | Description                                                                                                                                                                                   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APC-3103MP | 10.1" WXGA total IP66 design plastic panel PC, NXP iMX8M Quad PlusProcessor, DDR4 4GB on board, 32GB eMMC, M12 connectors,with projected capacitive touch, wide range 9~60V DC power input    |
| APC-3103IP | 10.1" WXGA total IP66 design plastic panel PC, NXP iMX8M Quad PlusProcessor, DDR4 4GB on board, 32GB eMMC, ISOBUS connectors,with projected capacitive touch, wide range 9~60V DC power input |



# In-Vehicle Industrial Panel PC



**INDUSTRY 4.0 EVOLVES  
WAREHOUSING MANAGEMENT  
INTO A SMART FUTURE**





# HOW IN-VEHICLE CONNECTIVITY DRIVES THE EFFICIENT WAREHOUSE MANAGEMENT

A good warehouse management system (WMS) can be installed in different ways, depending on the size of the warehouse, the complexity of the operations, and the budget. The main advantages of a WMS are:

- **Reliability, efficiency, easy maintenance:** A WMS can help you to manage your inventory, orders, and shipments more accurately and quickly, reducing the risk of errors and improving customer satisfaction.
- **Smooth operation:** A WMS can help you to optimize your warehouse layout, equipment, and processes, ensuring that everything runs smoothly and efficiently.

## Rugged and Fanless Design

In the collisional environment, all series is rugged and fanless designed for easily keeping equipment maintenance. Strongly enhancing the reliability, efficiency, and stability.

APC-3072 has the attractive front bezel designed and the surface adopts Aluminum which is lightweight, high strength and anti-corrosion.

APC-3082 has the special enclosure made by engineering plastic which is also lightweight and suits rugged conditions.



## APC-3072

### Aluminum Front Bezel Design



APC-3082  
Rugged Plastic Housing



## Touch Screen Monitor Technologies

APLEX in-vehicle panel PC series provides 5 wire resistive touch with 7H anti-scratch and over 80% of light transfer rate for improving the quality and clarity of display. Also, we offer a multi-touch screen for option.



7H anti-scratch



## Wireless

## ● Various Mounting

To attach our Panel PC in different ways, we offer different mounting solutions. We supply many mounting ways: wall mount, desk mount, VESA mount 75x75 / 100x100, mobile cart mount (option).

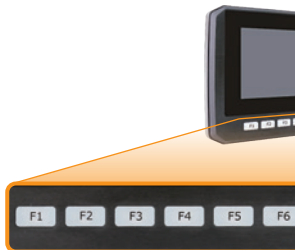
## Wireless Communication

All series supports Bluetooth, Wi-Fi, GPS, and 3G/LTE network function for immediately tracking and managing the assets, as well as update 24/7 real-time location status and route information to the control center.



## Front-Function Key

APC-30X2 series are equipped  
as power on/off button for con  
includes the volume up/down,  
provides F1~F6 programmable





ent needs to carefully structure each stage so it can bring lots of benefits to companies. APLEX In-Vehicle Panel  
ent types of vehicles in the warehouse and depots, such as forklifts and engineering trucks to reach high stability,  
aintenance, and well communication. APLEX In-Vehicle Panel PC solution can perfectly monitor and keep each  
and running the assignments to minimize the errors.



## IP66 Waterproof and M12 I/O Connectors

Since logistic application includes indoor and outdoor, accompanying by humid, dusty environment. APLEX Panel PC is equipped with 6 sides IP66 certified protection with M12 connectors which can be tightly screwed in and avoid descent of water and dust-proof, in case the water damage the machine when it will be operated outdoor.



## Ways

erent types of vehicle,  
ays including Panel  
100x100 and YOKE

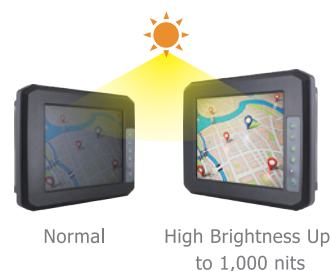
## ypad

l with the functional keypad such  
veniently operating. APC-3082  
, lighten up/down, and APC-3072  
e button.



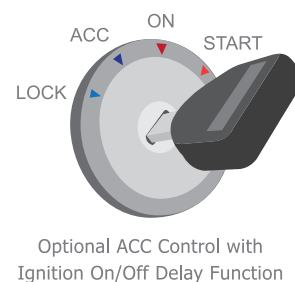
## High brightness Sunlight Readable LED Backlight LCD

High luminance is provided from 600 nits up to 1,000 nits for optional which can be used in semi-outdoor to aim the sunlight readable solutions. LED backlight LCD can greatly save the power consumption and provide the longer LCD lifetime.



## ACC Control Design

ACC power delayed on/off function which can customize the period of time to delay panel PC power up and shutdown, as well as prevent from system crash and damaging the hardware because of computer suddenly shutting down.



## Operation System Support / Certification

APC-30X2 series supports windows embedded 7/8.1 and windows 10 IoT operating system. Moreover, it passes CE/FCC Class A/ MIL810F/ IEC60068-2-27 for vibration/ Shock certification.





## WAREHOUSE ENVIRONMENT

Warehouse Environment is complex and tough, combining with the wide temperature range, high turnovers, and a multitude of inventory. From receiving inventory, asset management and tracking, order selection to shipping and delivering, it requires high safety, low errors, quality assurance and high efficiency.

APLEX In-Vehicle Panel PC is creatively designed for managing and automating the process of warehouse management and it integrates web connectivity for applications in vehicle management. According to your requirement, you can evaluate the necessities and easily do the OS decision-making according to your needs of the software.



### APC-3072 / 3082

- Intel Atom Processor E3845
- Onboard 4GB DDR3L Memory
- 1 x Micro SD on board
- 1 x mSATA MO-300 slot
- Total IP66 Rating
- Front Function Keyboard
- Wide Range DC 6~36V Power Input







# APC-3082

## Rugged Industrial Panel PC

### Vehicle Management Panel PC

- Rugged, Total Waterproof IP66 Grade
- Rugged Plastic Housing
- Brightness Control From 0%~100% by OSD Keypad
- Wide Range DC 6~36V Power Input
- ACC Ignition function(optional)
- Wi-Fi/Bluetooth/3G/GPS Module for option
- Vehicle Adjustable Mounting Kit for option
- CE/FCC Class A/MIL810F/IEC60950 Certified



Low Power Consumption  
Intel Atom E3845  
Processor



Rugged Plastic Housing



5 Wire Resistive Touch



Wide Range  
DC 6~36V Power Input



Total IP66 Waterproof



# APC-3082

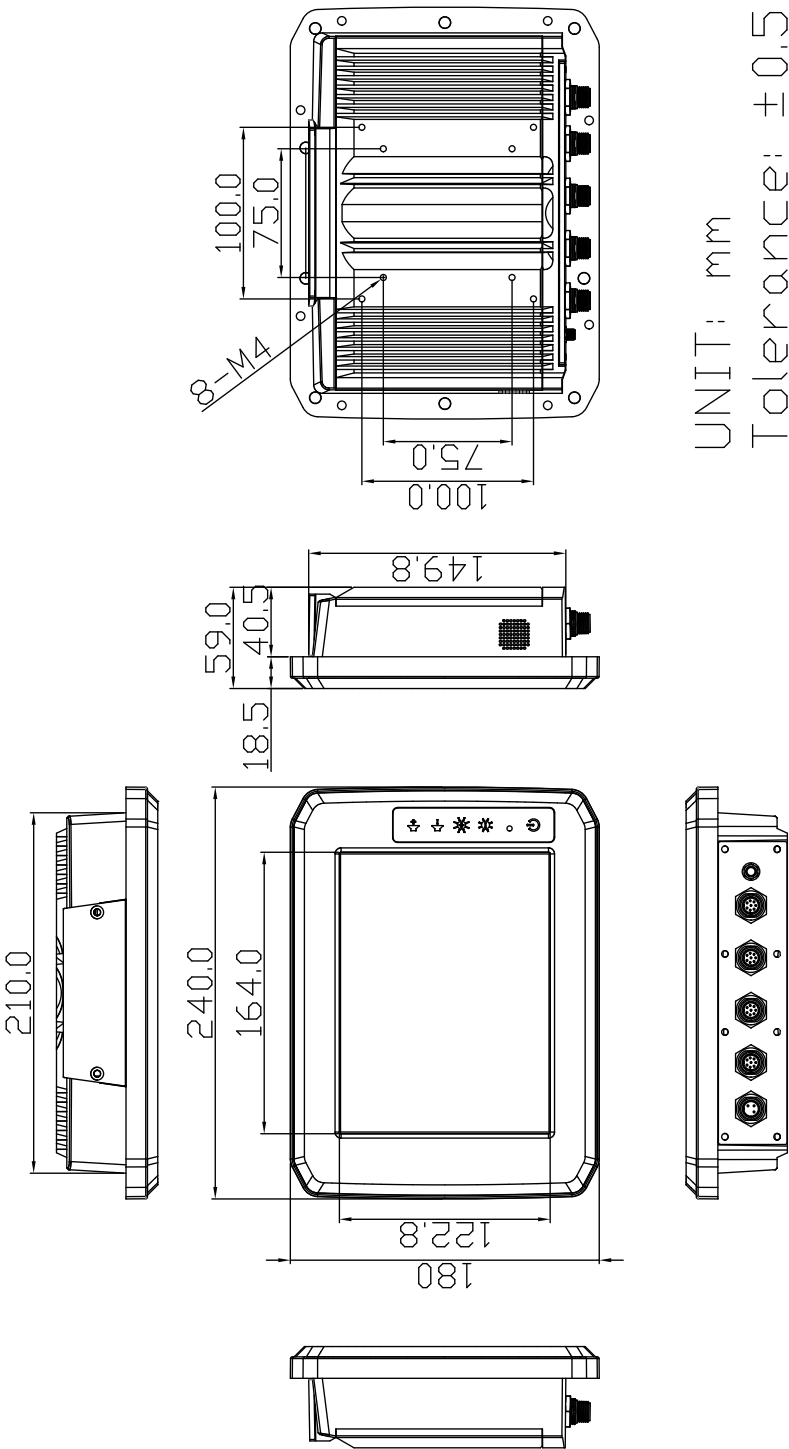
Rugged Industrial Panel PC



| Model Name                                                            | APC-3082                                                                                                                                               |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                                                                |                                                                                                                                                        |
| Processor                                                             | Onboard Intel Atom E3845 Processor (2M Cache, 1.91GHz)                                                                                                 |
| System Chipset                                                        | SoC                                                                                                                                                    |
| System Memory                                                         | Onboard 4GB DDR3L memory                                                                                                                               |
| External I/O                                                          |                                                                                                                                                        |
| USB                                                                   | 1 x M12 8pin for 2 x USB2.0 with waterproof cover                                                                                                      |
| Serial/Parallel                                                       | 2 x M12 8-pin for RS-232/422/485, default RS-232 with waterproof cover                                                                                 |
| LAN                                                                   | 1 x M12 8pin for GbE LAN with waterproof cover                                                                                                         |
| OSD Keypad Control                                                    | 1 x 5 keys for OSD keypad function,<br>0~100% brightness up/down control<br>Volume up/down via audio<br>Power on/off LED indicator                     |
| Power connector                                                       | 1 x M12 3-pin for DC power input (6~36V) with waterproof cover                                                                                         |
| Storage Space                                                         |                                                                                                                                                        |
| HDD                                                                   | None                                                                                                                                                   |
| Storage device                                                        | 1 x Micro SDXC on board<br>1 x mSATA MO-300 slot                                                                                                       |
| Expansion                                                             |                                                                                                                                                        |
| Expansion Slot                                                        | 1 x Mini-PCle (full size) on board for GPS/GPRS/3G optional<br>1 x Mini-PCle (half size) on board for WiFi/Bluetooth optional<br>1 x SIM slot on board |
| Display                                                               |                                                                                                                                                        |
| Display type                                                          | 8" TFT-LCD                                                                                                                                             |
| Max. resolution                                                       | 800 x 600                                                                                                                                              |
| Max. color                                                            | 16.2M                                                                                                                                                  |
| Luminance(cd/m <sup>2</sup> )                                         | 600nits Optional 1000nits                                                                                                                              |
| View angle(H°/V°)                                                     | 140/125                                                                                                                                                |
| Contrast                                                              | 500:1                                                                                                                                                  |
| Backlight lifetime(hrs)                                               | 30000                                                                                                                                                  |
| Touch Screen                                                          |                                                                                                                                                        |
| Type                                                                  | Resistive<br>Projected capacitive (option, without OSD keypad function)                                                                                |
| Interface                                                             | USB                                                                                                                                                    |
| Light transmission(%)                                                 | 80%                                                                                                                                                    |
| Power                                                                 |                                                                                                                                                        |
| Power input                                                           | 6~36V DC (ACC Ignition function and Delay ON/OFF setting option)                                                                                       |
| Power Consumption                                                     | APC-3082: 11W                                                                                                                                          |
| Mechanical                                                            |                                                                                                                                                        |
| Construction                                                          | Rugged Plastic Housing with aluminum heatsink                                                                                                          |
| IP rating                                                             | Total IP66                                                                                                                                             |
| Mounting                                                              | Panel Mount, VESA 75 x 75, VESA 100 x 100, Yoke mount(option)                                                                                          |
| Dimension(mm)                                                         | 240 x 180 x 59                                                                                                                                         |
| Net weight(Kg)                                                        | 2                                                                                                                                                      |
| Environment                                                           |                                                                                                                                                        |
| Operating temperature(°C)                                             | 0~50, WT1: -20~60 (option)                                                                                                                             |
| Storage temperature(°C)                                               | -30~80                                                                                                                                                 |
| Humidity                                                              | 10 to 90% @ 40°C, non- condensing                                                                                                                      |
| Certification                                                         | CE / FCC Class A (Compliant with MIL810G)                                                                                                              |
| Operating System Support                                              |                                                                                                                                                        |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT ENT LTSC |                                                                                                                                                        |



APC-3082



unit:mm

Ordering information

| Model NO. | Description                                                                                                                                                            |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APC-3082T | 8" SVGA Rugged Total IP65 panel PC , Intel ATOM E3845 Processor, 4GB DDR3L onboard, 8G SLC mSATA, resistive touch, 6~36V DC input with Adapter, Rugged Plastic housing |
| Optional  | High Brightness 1000nits                                                                                                                                               |
| Optional  | WT1 -20~60 Operating Temperature                                                                                                                                       |
| Optional  | Vehicle Adjustable Mounting Kit                                                                                                                                        |



# APC-3072

## Rugged Industrial Panel PC

### Vehicle Management Panel PC

- Intel® Atom™ Processor E3845
- Onboard 4GB DDR3L Memory
- IP66 I/O Connectors
- Expansion Slot of 2 Mini-PCle with WiFi/GPS/LTE/BT
- SIM slot supported



6~36V DC Wide Range  
Power Input



Total 6 Sides IP66



Front Function Keyboard  
(Programmable F1~F6)  
with Power Button



Resistive/Projected  
Capacitive Touch



Aluminum Front Bezel  
and Fanless Design

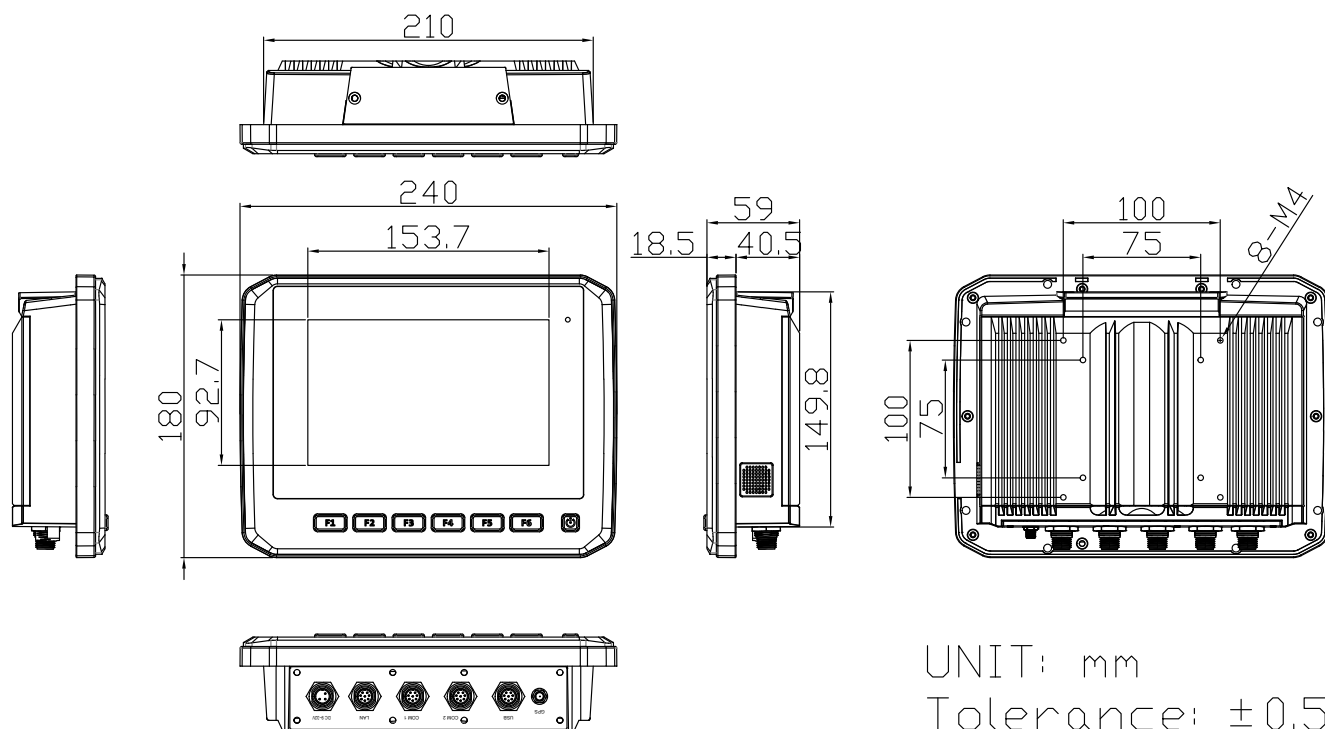




## Specifications

| Model Name                                                            | APC-3072                                                                                                                                               |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                                                         |                                                                                                                                                        |
| Processor                                                             | Onboard Intel Atom E3845 Processor (2M Cache, 1.91GHz)                                                                                                 |
| System Chipset                                                        | SoC                                                                                                                                                    |
| System Memory                                                         | Onboard 4GB DDR3L memory                                                                                                                               |
| <b>External I/O</b>                                                   |                                                                                                                                                        |
| USB                                                                   | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover                                                                                                    |
| Serial/Parallel                                                       | 2 x M12 8-pin for RS-232/422/485, default RS-232 with waterproof cover                                                                                 |
| LAN                                                                   | 1 x M12 8-pin for GbE LAN with waterproof cover                                                                                                        |
| Function Keypad                                                       | 1 x 7 keys for F1~F6 and power button,<br>Default general keyboard F1~F6 key programmable other define                                                 |
| Power connector                                                       | 1 x M12 3-pin for DC power input (6~36V) with waterproof cover                                                                                         |
| <b>Storage Space</b>                                                  |                                                                                                                                                        |
| HDD                                                                   | None                                                                                                                                                   |
| Movable device                                                        | 1 x Micro SDXC on board<br>1 x mSATA MO-300 slot                                                                                                       |
| <b>Expansion</b>                                                      |                                                                                                                                                        |
| Expansion slot                                                        | 1 x Mini-PCIe (full size) on board for GPS/GPRS/3G optional<br>1 x Mini-PCIe (half size) on board for WiFi/Bluebooth optional<br>1 x SIM slot on board |
| <b>Display</b>                                                        |                                                                                                                                                        |
| Display type                                                          | 7" TFT-LCD                                                                                                                                             |
| Max. resolution                                                       | 800 x 480                                                                                                                                              |
| Max. color                                                            | 262K                                                                                                                                                   |
| Luminance(cd/m <sup>2</sup> )                                         | 600nits Optional 1000nits                                                                                                                              |
| View angle(H°/V°)                                                     | 140/130                                                                                                                                                |
| Contrast                                                              | 400:1                                                                                                                                                  |
| Backlight lifetime(hrs)                                               | 50000                                                                                                                                                  |
| <b>Touch Screen</b>                                                   |                                                                                                                                                        |
| Type                                                                  | Resistive<br>Projected capacitive (option, without OSD keypad function)                                                                                |
| Interface                                                             | USB                                                                                                                                                    |
| Light transmission(%)                                                 | 90%                                                                                                                                                    |
| <b>Power</b>                                                          |                                                                                                                                                        |
| Power input                                                           | 0~50, WT1: -20~60 (option)                                                                                                                             |
| Power Consumption                                                     | APC-3072: 13W                                                                                                                                          |
| Optional Power                                                        | DC 6~36V (default)                                                                                                                                     |
| <b>Mechanical</b>                                                     |                                                                                                                                                        |
| Construction                                                          | Aluminum front bezel, plastic back cover with aluminum heat-sink                                                                                       |
| IP rating                                                             | Total IP66                                                                                                                                             |
| Mounting                                                              | Panel mount, VESA mount 75 x 75, VESA mount 100 x 100, YOKE mount (option)                                                                             |
| Dimension(mm)                                                         | 240 x 180 x 59                                                                                                                                         |
| Net weight(Kg)                                                        | 2.1                                                                                                                                                    |
| <b>Environment</b>                                                    |                                                                                                                                                        |
| Operating temperature(°C)                                             | 0~50, WT1: -20~60 (option)                                                                                                                             |
| Storage temperature(°C)                                               | -30~80                                                                                                                                                 |
| Humidity                                                              | 10 to 90% @ 40°C, non- condensing                                                                                                                      |
| Certification                                                         | CE / FCC Class A. (Compliant with MIL810G)                                                                                                             |
| <b>Operating System Support</b>                                       |                                                                                                                                                        |
| Windows Embedded 7<br>Windows Embedded 8.1<br>Windows 10 IoT ENT LTSC |                                                                                                                                                        |

## APC-3072



UNIT: mm  
Tolerance:  $\pm 0.5$

unit:mm

## Ordering information

| Model NO. | Description                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APC-3072  | 7" WVGA Rugged Total IP66 panel PC , Intel ATOM E3845 Processor, 4GB DDR3L on board, 8G SLC mSATA, PCT, 6~36V DC input with Adapter, Aluminum Front Bezel and Rugged Plastic housing |





# OPC-5XX8 Series

Open Frame Panel PC

Intel® Celeron™ N2930 Processor

- Intel Celeron N2930 Processor
- Easily Achieve Flat Front Bezel Design
- Adjustable Front Bezel Design
- Front Bezel IP65
- Wide Range DC 9~36V Power Input



Intel Celeron N2930 Processor



Easily Achieve Flat Front Bezel Design



Adjustable Front Bezel Design



Wide Range DC 9~36V Power Input



5-wire resistive touch window/ Projected capacitor touchscreen support 7H optional



# OPC-5XX8 Series

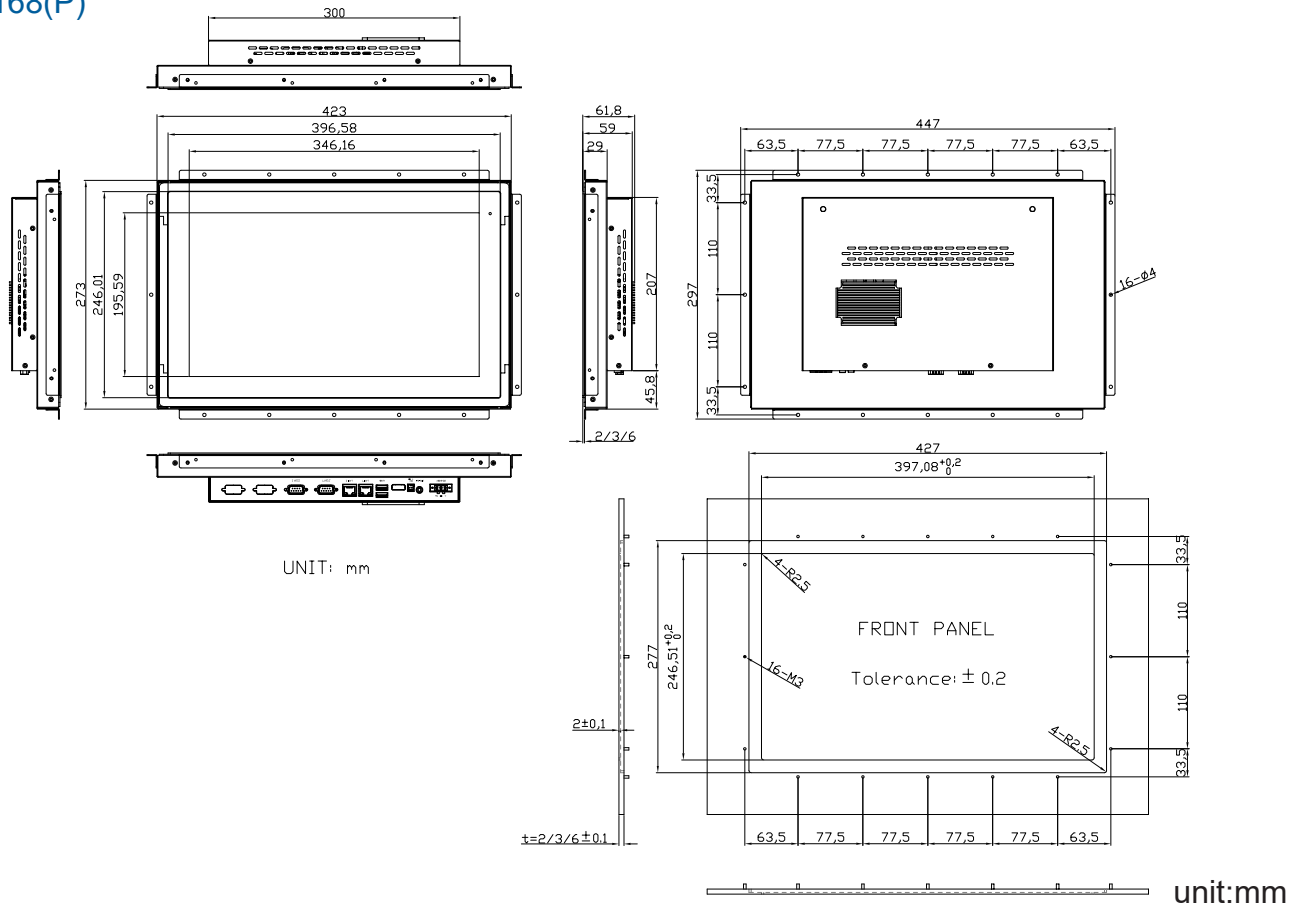
Open Frame Panel PC



| Model Name                                      | OPC-5128(P)                                                            |            | OPC-5158(P)        |  | OPC-5168(P)      |  |
|-------------------------------------------------|------------------------------------------------------------------------|------------|--------------------|--|------------------|--|
| System                                          |                                                                        |            |                    |  |                  |  |
| Processor                                       | Celeron N2930 Processor(2M Cache,1.83GHz)                              |            |                    |  |                  |  |
| System Chipset                                  | SoC                                                                    |            |                    |  |                  |  |
| System Memory                                   | Onboard 4GB DDR3L SDRAM ,8GB(option)                                   |            |                    |  |                  |  |
| External I/O                                    |                                                                        |            |                    |  |                  |  |
| USB                                             | 2 x USB 3.0 type A                                                     |            |                    |  |                  |  |
| Serial/Parallel                                 | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)  |            |                    |  |                  |  |
| LAN                                             | 2 x GbE LAN RJ-45                                                      |            |                    |  |                  |  |
| Graph                                           | None                                                                   |            |                    |  |                  |  |
| Audio                                           | 1 x Line-out                                                           |            |                    |  |                  |  |
| Power connector                                 | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector |            |                    |  |                  |  |
| Storage Space                                   |                                                                        |            |                    |  |                  |  |
| HDD                                             | 1 x 2.5" SATA2 HDD space                                               |            |                    |  |                  |  |
| Movable device                                  | 1 x SD slot                                                            |            |                    |  |                  |  |
| Expansion                                       |                                                                        |            |                    |  |                  |  |
| Onboard expansion bus                           | 1 x mini-PCIe slot(full size)                                          |            |                    |  |                  |  |
| Expansion Slot                                  | None                                                                   |            |                    |  |                  |  |
| Display                                         |                                                                        |            |                    |  |                  |  |
| Display type                                    | 12.1" TFT-LCD                                                          |            | 15" TFT-LCD        |  | 15.6" TFT-LCD    |  |
| Max. resolution                                 | 800 x 600                                                              | 1024 x 768 | 1024 x 768         |  | 1366 x 768       |  |
| Max. color                                      | 16.2M                                                                  | 16.2M      | 262K               |  | 16.7M            |  |
| Luminance(cd/m²)                                | 450                                                                    | 500        | 420                |  | 300              |  |
| View angle(H°/V°)                               | 160/140                                                                | 160/140    | 160/160            |  | 160/160          |  |
| Backlight lifetime(hrs)                         | 50000                                                                  | 30000      | 30000              |  | 50000            |  |
| Touch Screen                                    |                                                                        |            |                    |  |                  |  |
| Type                                            | Resistive Touch<br>Projected Capacitive(For P model)                   |            |                    |  |                  |  |
| Interface                                       | USB                                                                    |            |                    |  |                  |  |
| Light transmission(%)                           | Resistive: 80%<br>Projected Capacitive :90%                            |            |                    |  |                  |  |
| Power                                           |                                                                        |            |                    |  |                  |  |
| Power input                                     | DC 9~36V                                                               |            |                    |  |                  |  |
| Power Consumption (TYP.)                        | OPC-5128P:18.7W                                                        |            | OPC-5158P:20.2W    |  | OPC-5168P:21.5W  |  |
| Mechanical                                      |                                                                        |            |                    |  |                  |  |
| Construction                                    | Open frame steel                                                       |            |                    |  |                  |  |
| IP rating                                       | IP 65 compliant front bezel                                            |            |                    |  |                  |  |
| Mounting                                        | Open frame panel mount                                                 |            |                    |  |                  |  |
| Dimension(mm)                                   | 323 x 263 x 54                                                         |            | 385 x 299.5 x 54.8 |  | 423 x 273 x 61.8 |  |
| Net weight(Kg)                                  | 3.7                                                                    |            | 4.9                |  | 5.0              |  |
| Environment                                     |                                                                        |            |                    |  |                  |  |
| Operating temperature(°C)                       | 0 ~ 40(without Fan)<br>0 ~ 60(with Fan)                                |            |                    |  |                  |  |
| Storage temperature(°C)                         | -20~60                                                                 |            |                    |  |                  |  |
| Humidity                                        | 10 to 95% @ 40°C, non- condensing                                      |            |                    |  |                  |  |
| Certification                                   | CE/FCC Class A                                                         |            |                    |  |                  |  |
| Operating System Support                        |                                                                        |            |                    |  |                  |  |
| Windows 7<br>WEC 7<br>Windows 8.1<br>Windows 10 |                                                                        |            |                    |  |                  |  |



## OPC-5168(P)



## Ordering information

| Model NO.        | Description                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OPC-5128</b>  | 12.1" SVGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Resistive touch screen, 9~36V DC input with Adapter, steel enclosure     |
| <b>OPC-5128P</b> | 12.1" SVGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Projected Capacitive touch, 9~36V DC input with Adapter, steel enclosure |
| <b>OPC-5158</b>  | 15" XGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Resistive touch screen, 9~36V DC input with Adapter, steel enclosure        |
| <b>OPC-5158P</b> | 15" XGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Projected Capacitive touch, 9~36V DC input with Adapter, steel enclosure    |
| <b>OPC-5168</b>  | 15.6" WXGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Resistive touch screen, 9~36V DC input with Adapter, steel enclosure     |
| <b>OPC-5168P</b> | 15.6" WXGA fanless open frame PC with Celeron N2930 Processor, 4GB DDR3 RAM, Projected Capacitive touch, 9~36V DC input with Adapter, steel enclosure |





# HMI

APLEX has been dedicated to developing human machine interface which is APLEX flagship product; we have devoted to deliver the world-class performance for wide range of industrial application, to efficiently control various machines, systems and facilities.

APLEX offers both x86-based and ARM-based open architecture products with TFT-LCD panels and the sizes ranging from 5.7" to 21.5". All are equipped with the touch screen including projected capacitive and resistive; the flat bezel design with IP 66 water-and dust-proof rated which is easy to clean, preventing the accumulation of grime. In order to reach the high industrial grade, APLEX HMI products support a wide range of voltage input (DC9~36V) and use the industry standard terminal block connector.

APLEX provides the most comprehensive human-machine interface products and services to all potential customers. Based on different requirements, APLEX offers cost-effective and high-performance selections; construction includes stainless steel, metal chassis, aluminum and plastic enclosure. All are well-suited for integration with all kinds of machinery and equipment.

# Quick Guide >> HMI

| Model Name          | HELIO-9C                                             | ARCHMI-9B                                             | ARCHMI-9A                                            |
|---------------------|------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
| CPU                 | Intel 11 <sup>th</sup> Core i3/i5                    | Intel 8 <sup>th</sup> Core i3/i5                      | Intel 6 <sup>th</sup> Core i3/i5                     |
| Memory              | 2 x SO-DIMM DDR4 2400MHz,<br>up to 64GB              | 1 x SO-DIMM DDR4 2400MHz,<br>up to 32GB               | 1 x SO-DIMM DDR4 2400MHz,<br>up to 16GB              |
| Touch screen        | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch  | Resistive Touch Window<br>Projected Capacitive Touch |
| Front Bezel         | Aluminum Die-casting                                 | Aluminum Die-casting                                  | Aluminum Die-casting                                 |
| Back Cover          | Aluminum Die-casting                                 | Aluminum Die-casting                                  | Aluminum Die-casting                                 |
| Easy Accessible HDD | No                                                   | Yes                                                   | Yes                                                  |
| SD Card Slot        | No                                                   | No                                                    | No                                                   |
| Display Size        | 10.1"/15.6"/21.5"                                    | 12.1"/12.1" wide/15"/15.6"<br>17"/18.5"/19"/21.5"/32" | 12.1"/15"/15.6"<br>17"/18.5"/19"/21.5"/32"           |

| Model Name          | ARCHMI-8A                                                    | ARCHMI-8                                             | ARMPAC-6B                                            |
|---------------------|--------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| CPU                 | Intel Pentium N4200 /<br>Celeron N3350                       | Intel Celeron N2930                                  | Cortex-A72                                           |
| Memory              | Onboard DDR3L 4GB<br>/8GB(option)                            | Onboard DDR3L 4GB<br>/8GB(option)                    | Onboard 4GB LPDDR4 SDRAM                             |
| Touch screen        | Resistive Touch Window<br>Projected Capacitive Touch         | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch |
| Front Bezel         | Aluminum Die-casting                                         | Aluminum Die-casting                                 | Plastic                                              |
| Back Cover          | Aluminum Die-casting                                         | Aluminum Die-casting                                 | Plastic                                              |
| Easy Accessible HDD | Yes                                                          | Yes                                                  | No                                                   |
| SD Card Slot        | Yes                                                          | Yes                                                  | Micro SD Slot                                        |
| Display Size        | 7"/8"/10.1"/12.1"/12.1 wide<br>15"/15.6"/17"/18.5"/19"/21.5" | 7"/8"/10.1"/12.1"/15"<br>15.6"/17"/18.5"/19"/21.5"   | 7"/10.1"                                             |

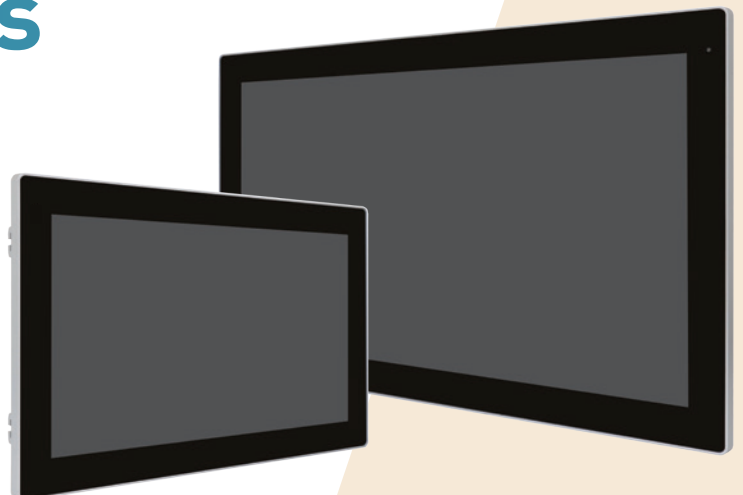
| Model Name          | ARMPAC-6                                             | ARMPAC-5                                             | FABS-9A                                              | FABS-8                                               |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| CPU                 | i.MX6 DualLite ARM Cortex A9                         | TI-AM3354, ARM® CortexTM A8<br>up to 1GHz            | Intel 6 <sup>th</sup> Core i3/i5                     | Intel Celeron N2930                                  |
| Memory              | Onboard 1GB DDR3 DRAM                                | Onboard DDR3 512MB up to<br>1GB                      | 1 x SO-DIMM DDR4 2400MHz,<br>up to 16GB              | Onboard 4GB DDR3L                                    |
| Touch screen        | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch |
| Front Bezel         | 7"~12.1": Plastic<br>15"~21.5": Aluminum Die-casting | Plastic                                              | Stainless steel                                      | Stainless steel                                      |
| Back Cover          | 7"~12.1": Plastic<br>15"~21.5": Aluminum Die-casting | Plastic                                              | Aluminum Die-casting                                 | Aluminum Die-casting                                 |
| Easy Accessible HDD | No                                                   | No                                                   | Yes                                                  | Yes                                                  |
| SD Card Slot        | Micro SD Slot                                        | Micro SD Slot                                        | No                                                   | Yes                                                  |
| Display Size        | 7"/8"/10.1"<br>12.1"/15"/15.6"/21.5"                 | 5.6"/7"/8"/10.1"/12.1"                               | 7"/10.1"/12.1"/15"<br>15.6"/17"/18.5"/19"/21.5"      |                                                      |



*New Generation Rugged HMI*

# HELIO Series

*High Performance Computing  
to Improve Smart Factory Productivity*





# HELIO Series

## New Generation HMI for Smart Automation

APLEX HELIO series is the new generation HMI. HELIO is powered by Intel Tiger Lake 11th Gen processor for factory automation, control and communication.

### Features

- Intel Tiger Lake 11th Generation Processor
- 2 x SO-DIMM DDR4 3200MHz, up to 64GB
- Resistive/ Projected Capacitive Touch
- High Brightness 1,000 nits Optional
- M.2 and Mini-PCle Expansion Slots
- Aluminum Die-casting Construction

Camera (by project)

2 mm

Slim Design

Narrow Border

Narrow border and slim design make HELIO not only looks more modern and stylish but also greatly decreases the system weight.



11th Gen. Intel Core i3/i5



Fanless Design



IP66 Front Bezel



0°C~ 50°C  
(-20°C~ 60°C optional)

Wide Range Temperature

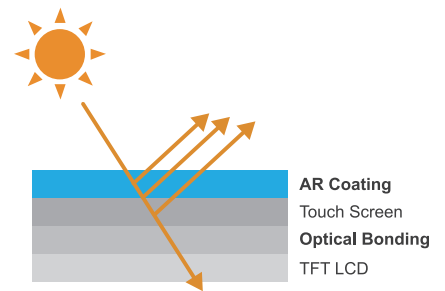
### Sunlight Readable Solution (for option)



• Auto Dimming



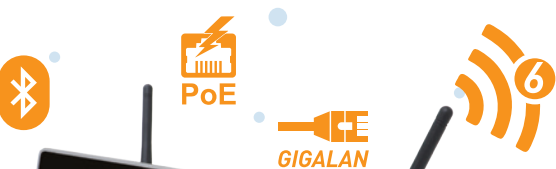
• High Brightness



• Optical Bonding & AR Coating



ation HMI for industrial automation. From features to product outlook design, we highly elevated overall functions. 11th generation Core i3 and i5 to provide high computing performance for smart manufacturing, communication, SCADA and robotic applications, process control and so on.



**Internet Connectivity**

HELIO supports various internet connectivity to support AIoT, and provides a smooth and high speed data transmission to connect peripherals and advanced control system.



### Modern Design

The special glinting light line with aluminum die-casting construction makes the outlook much more stylish.



### Fast Mounting Kit (available above 15.6")

APLEX unique mounting kit highly protect the system from water or dirt ingress by having no fix-holes on the panel frame.

### Modular and Easy Assembly

The computing system can be removed by only two screws, which is convenient and time-saving.



### I/O Expansion Solutions

HELIO supports TB-528 series expansion cards to satisfy different factory automation requirements. Being more customized and flexible, various I/O combinations are available!



CAN Bus Module

TB-528CAN2



USB Module

TB-528U2



COM Module

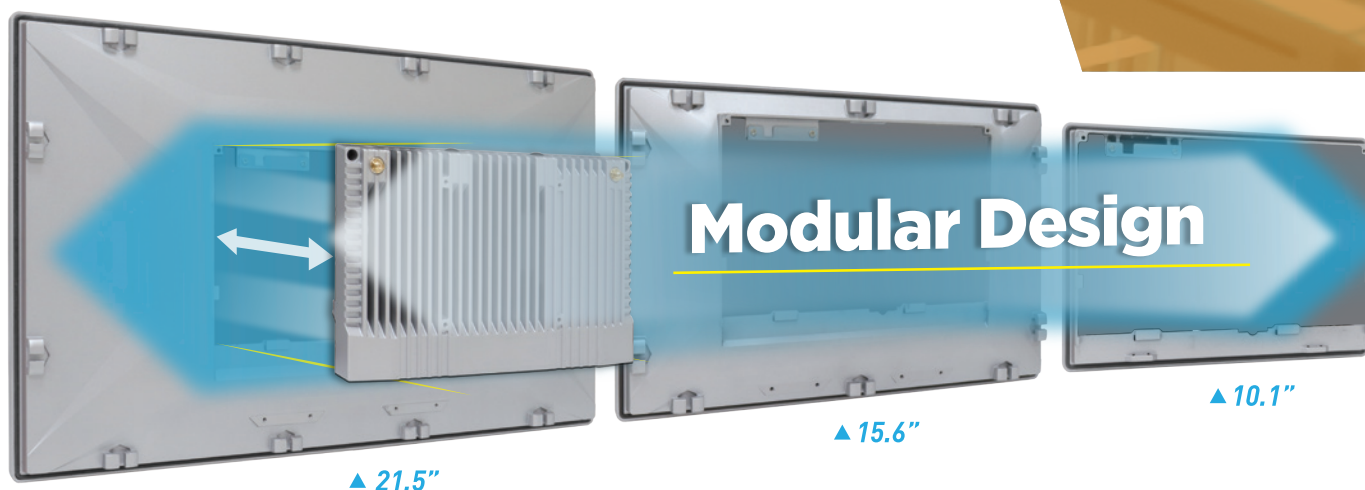
TB-528C2I



PoE/LAN Module

TB-528E1U2POE

ctions.



### Modular Design

It can assemble with different sizes of display panel, which also makes maintain the facility more cost-effective.

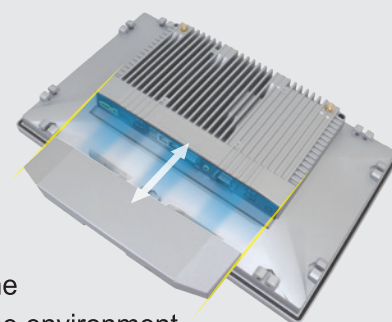
### Backup Battery



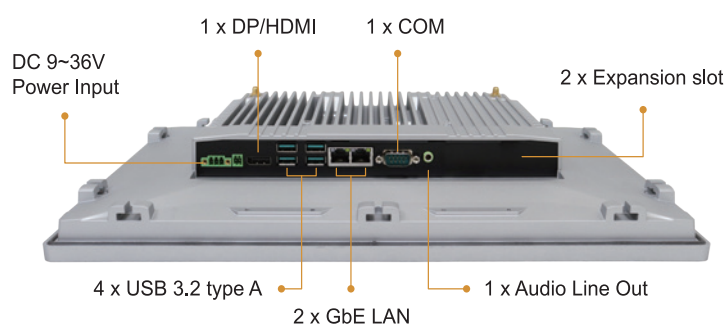
An optional backup battery provides emergency backup power source to protect data and the system for unexpected power interruption.

### Cable Management (for above 15.6")

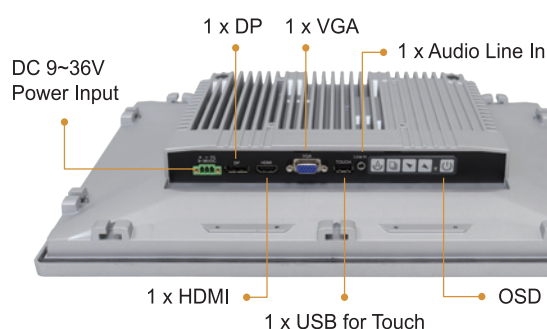
HELIO supports cable cover to organize cables and provide a safe and reliable connection. It can protect cables from damaging, increase the lifespan and neaten the environment.



### Panel PC



### Display





# HELIO-9XXC Series

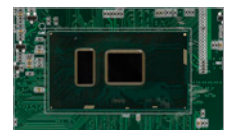
Performance Grade HMI

11<sup>th</sup> Gen. Intel Core i3/i5 Fanless HMI

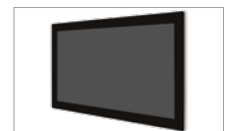
- 11th Gen. Intel Core i3/i5 CPU
- 2 x 260Pin SO-DIMM DDR4 slot, up to 64GB 3200MHz
- Support Full-size Mini PCIe and M.2 slots
- DC 9~36V Wide Range Power Input
- Fanless Design
- Aluminum Die-Casting Chassis



11<sup>th</sup> Gen. Intel Core i3-1115G4E/ i5-1145G7E



Flat Front Panel Touch Screen with IP66 front bezel



I/O Cable Cover for Option



Aluminum Die-Casting Chassis and Fanless Design



6 Antennas Reserve





# HELIO-9XXC Series

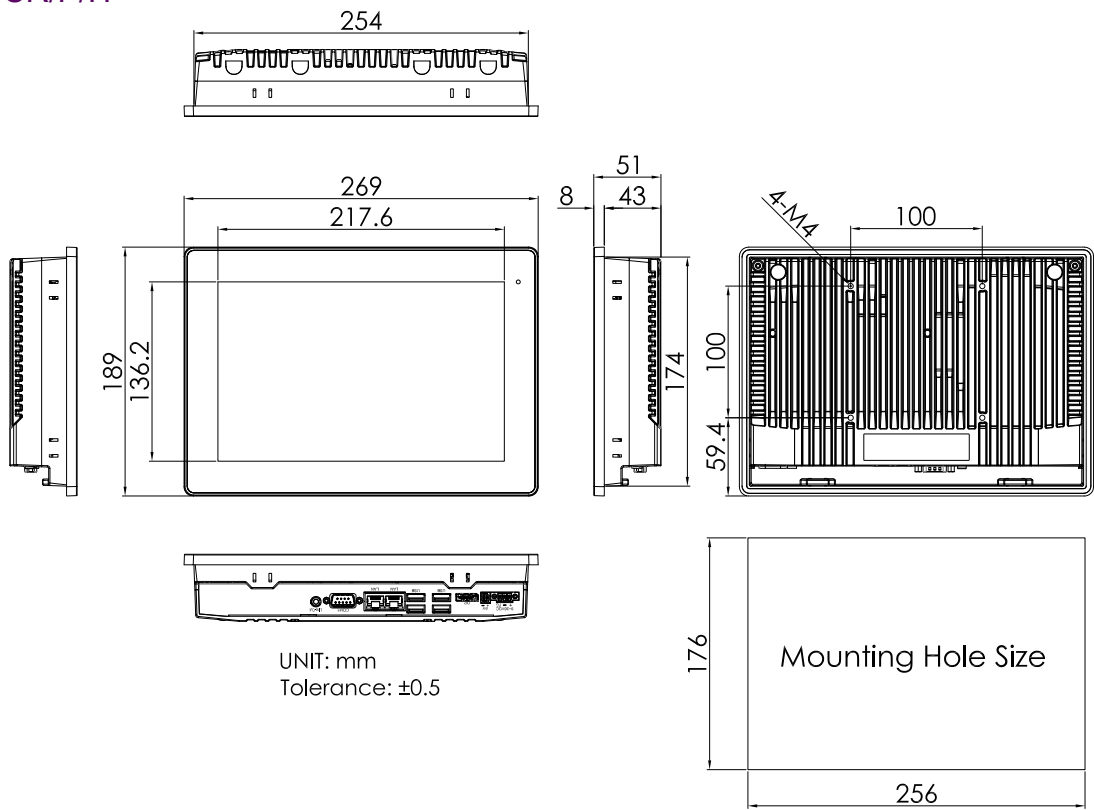
Performance Grade HMI



| Model Name                | HELIO-910CPR(H) |                                                                                                                                                                 |  |         | HELIO-916CPR(H) |                    |  |                    | HELIO-921CPR(H) |                |  |         |  |
|---------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|-----------------|--------------------|--|--------------------|-----------------|----------------|--|---------|--|
| System                    |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Processor                 |                 | Core i3-1115G4E (Dual Core, 6 MB cache, 2.20 GHz)<br>Core i5-1145G7E (Quad Core, 8 MB cache, 1.50 GHz)                                                          |  |         |                 |                    |  |                    |                 |                |  |         |  |
| System Chipset            |                 | SoC                                                                                                                                                             |  |         |                 |                    |  |                    |                 |                |  |         |  |
| System Memory             |                 | 2 x 260-pin SO-DIMM up to 64GB DDR4 3200MHz                                                                                                                     |  |         |                 |                    |  |                    |                 |                |  |         |  |
| External I/O              |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| USB                       |                 | 4 x USB 3.0 type A                                                                                                                                              |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Serial/Parallel           |                 | 1 x DB-9 connector, including:<br>* 1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1)<br>* 1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable |  |         |                 |                    |  |                    |                 |                |  |         |  |
| LAN                       |                 | 2 x GbE LAN RJ-45                                                                                                                                               |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Audio                     |                 | 1 x Line-out                                                                                                                                                    |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Display                   |                 | 1x DP/HDMI                                                                                                                                                      |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Power connector           |                 | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                                                                          |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Storage Space             |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Storage                   |                 | 1 x M.2 M-Key 2280 (Support PCIe/SATA3)                                                                                                                         |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Movable device            |                 | None                                                                                                                                                            |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Expansion                 |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Onboard expansion bus     |                 | 1 x mini-PCIe slot(full size)<br>1x M.2 E key for Wifi/BT Module<br>1 x Nano SIM slot                                                                           |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Display                   |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Display type              |                 | 10.1" TFT-LCD                                                                                                                                                   |  |         |                 | 15.6" TFT-LCD      |  |                    |                 | 21.5" TFT-LCD  |  |         |  |
| Max. resolution           |                 | 1280 x 800                                                                                                                                                      |  |         |                 | 1366 x 768         |  | 1920 x 1080        |                 | 1920 x 1080    |  |         |  |
| Max. color                |                 | 16.7M                                                                                                                                                           |  | 16.2M   |                 | 16.7M              |  | 16.2M              |                 | 16.7M          |  | 16.7M   |  |
| Luminance(cd/m²)          |                 | 350                                                                                                                                                             |  | 1000    |                 | 400    1000        |  | 450    1000        |                 | 250            |  | 1000    |  |
| View angle(H°/V°)         |                 | 170/170                                                                                                                                                         |  | 170/170 |                 | 170/160    160/160 |  | 170/170    170/170 |                 | 178/178        |  | 178/178 |  |
| Contrast Ratio            |                 | 800:1                                                                                                                                                           |  | 1300:1  |                 | 500:1    500:1     |  | 800:1    800:1     |                 | 1000:1         |  | 1000:1  |  |
| Backlight lifetime(hrs)   |                 | 30000                                                                                                                                                           |  | 50000   |                 | 50000    50000     |  | 50000    50000     |                 | 50000          |  | 50000   |  |
| Touch Screen              |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Type                      |                 | Resistive Touch(For CR model)<br>Projected Capacitive(For CP model)                                                                                             |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Interface                 |                 | USB                                                                                                                                                             |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Light transmission(%)     |                 | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                                                             |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Power                     |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Power input               |                 | DC 9~36V                                                                                                                                                        |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Power Consumption (TYP.)  |                 | TBD                                                                                                                                                             |  |         |                 | TBD                |  |                    |                 | TBD            |  |         |  |
| Mechanical                |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Construction              |                 | Aluminum die-casting Chassis                                                                                                                                    |  |         |                 |                    |  |                    |                 |                |  |         |  |
| IP rating                 |                 | IP66 Compliant Front Bezel                                                                                                                                      |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Mounting                  |                 | Panel Mount , VESA 100x100                                                                                                                                      |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Dimension(mm)             |                 | 269 x 189 x 51                                                                                                                                                  |  |         |                 | 405 x 256 x 59     |  |                    |                 | 541 x 330 x 59 |  |         |  |
| Net weight(Kg)            |                 | TBD                                                                                                                                                             |  |         |                 | TBD                |  |                    |                 | TBD            |  |         |  |
| Environment               |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Operating temperature(°C) |                 | 0~50/-20~60(option, TBD)                                                                                                                                        |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Storage temperature(°C)   |                 | -30~70                                                                                                                                                          |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Humidity                  |                 | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                                                             |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Certification             |                 | CE/FCC Class A                                                                                                                                                  |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Operating System Support  |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |
| Windows 10 IoT            |                 |                                                                                                                                                                 |  |         |                 |                    |  |                    |                 |                |  |         |  |

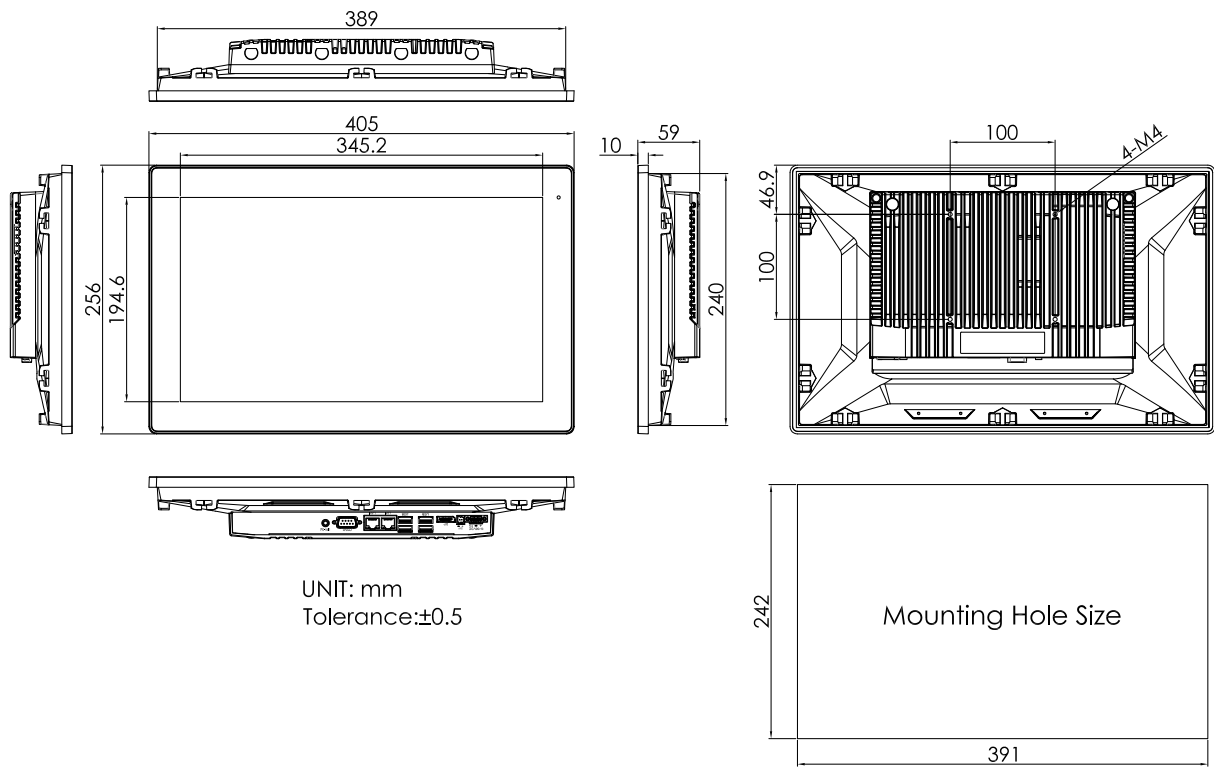


HELIO-910CR/P/H



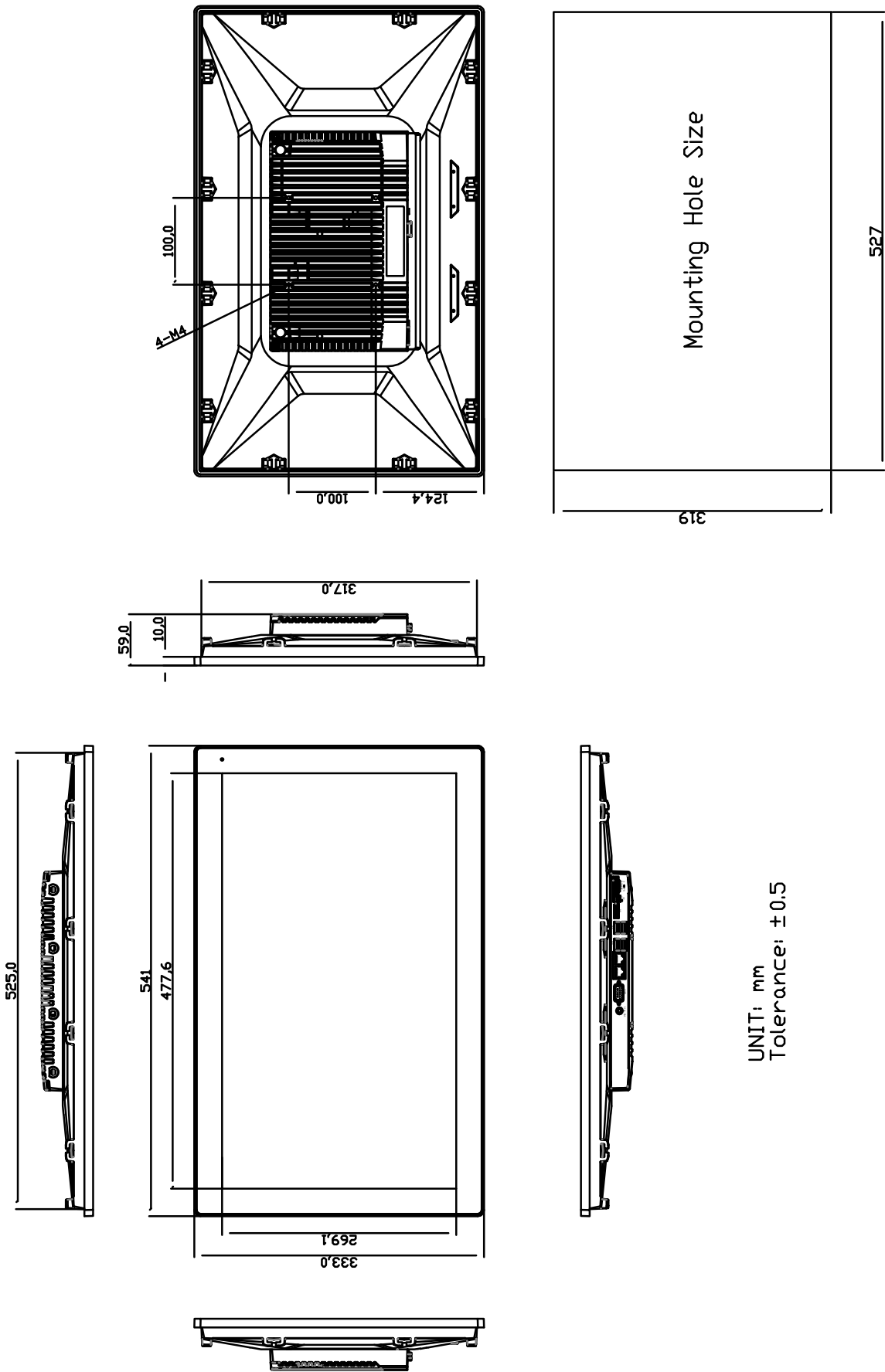
unit:mm

HELIO-916CR/P/H



unit:mm

HELIO-921CR/P/H

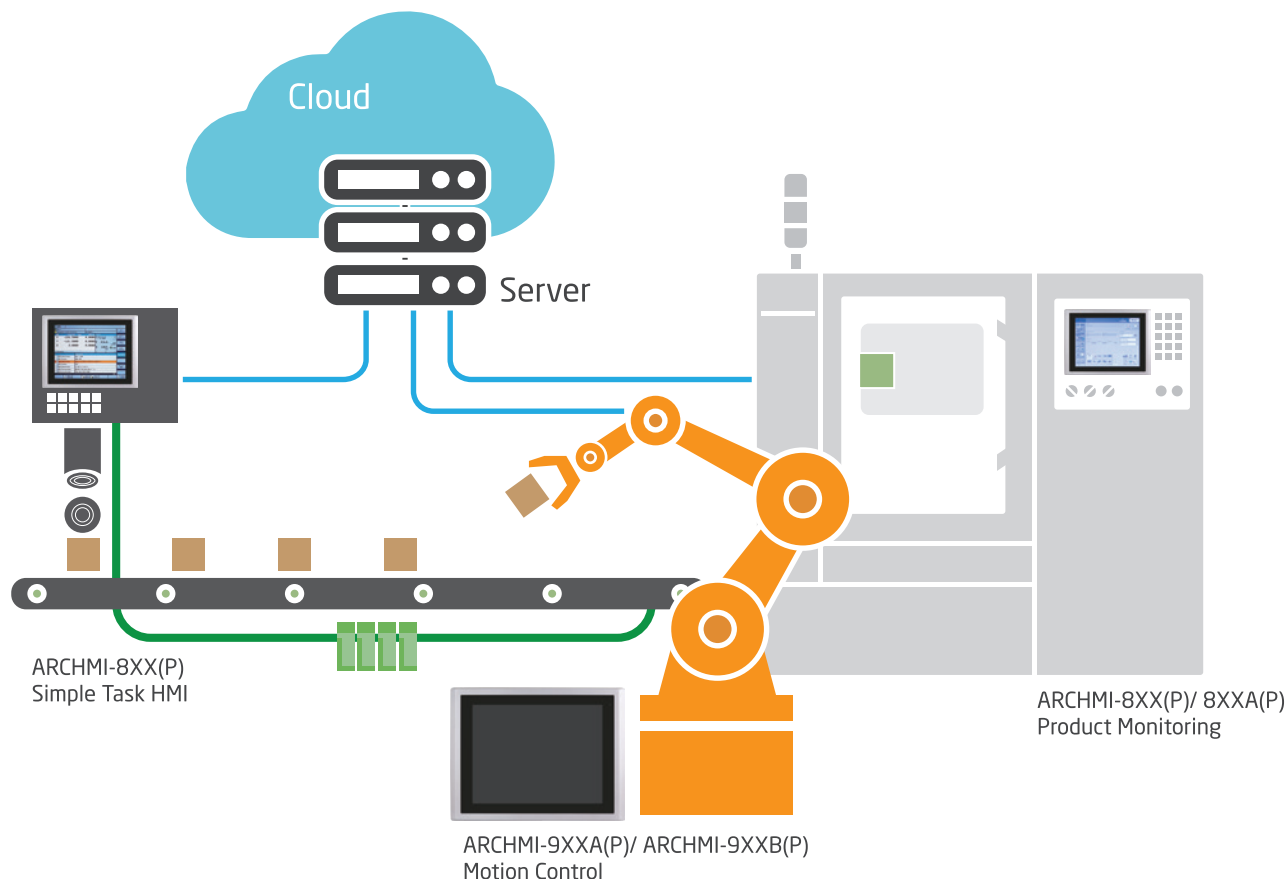


unit:mm

# ARCHMI Series

## Rugged Control HMI

Its fanless design offers 24/7 reliability, from low power Intel Atom to the latest Core i3/i5 (Whiskey Lake) CPU. The projected capacitive touch screen with pure flat, multi-touch support, anti-scratching, Wi-Fi, Dual LAN, Serial and USB functionality.



## Product Selection

| The Entry Level HMI                                                                                                                                                                                                               | Compact Size Low Power                                                                                                                                                                                                                                                              | High Performance Expandable                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>► <b>ARCHMI-8XX(P)(H)</b></p> <p>Atom E3845<br/>Intel Celeron N2930</p> <ul style="list-style-type: none"><li>• Factory Automation</li><li>• H2M / HMI</li><li>• Remote Data Collection</li><li>• Monitor AOI Status</li></ul> | <p>► <b>ARCHMI-8XXA(P)(H)</b></p> <p>Intel Pentium N4200<br/>Intel Celeron N3350</p> <ul style="list-style-type: none"><li>• Advanced Industrial Monitor Controller</li><li>• Intelligent Automation Controller</li><li>• Simple Task / Data Processing</li><li>• H2M/HMI</li></ul> | <p>► <b>ARCHMI-9XXA(P)(H)/ 9XXB(P)(H)</b></p> <p>6<sup>th</sup> Gen. Intel Core i3/i5 (9XXA(P))<br/>8<sup>th</sup> Gen. Intel Core i3/i5 (9XXB(P))</p> <ul style="list-style-type: none"><li>• Multi-Tasking Capable</li><li>• Ready for FHD</li><li>• SCADA / HMI</li><li>• IIoT Monitor Control</li></ul> |

# ARCHMI Series

## ► Specs & Details

- Available from 7" to 32"
- CPU: Built-in Atom E3845, Celeron N2930, Pentium N4200, Celeron N3350, 6<sup>th</sup>/8<sup>th</sup> Gen. Intel Core i3/i5
- RAM: Onboard 4GB DDR3L(up to 8 GB) / DDR4(up to 16/32 GB) RAM
- Touch: Resistive & Capacitive Touch Optional
- High Brightness and Wide Temperature Optional
- IP66 Compliant Front Panel
- Flat Bezel Design
- Supports Smart Battery Backup
- Optional Expansion I/O Board : TB-528 Series



Flat Front Panel Design with IP66 Standard



Aluminum Die-Casting Chassis Fanless Design



Easily Accessible Storage Design



Wide Range DC 9~36V Power Input

## ► Sunlight Readable HMI

ARCHMI-8 and 8A Series & ARCHMI-9A and 9B Series: Ideal for High Ambient Light Applications

### Auto Dimming



Auto Dimming for Option Automatically Adjust LCD Brightness

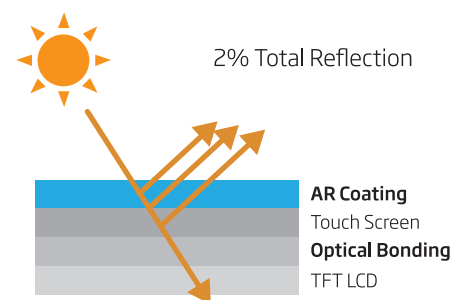
### High Brightness



Normal

1,000 nits High Brightness

### Optical Bonding & AR Coating

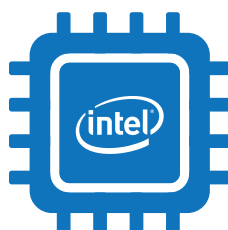


LCD Optical Bonding and Anti-Reflection Coating for Option

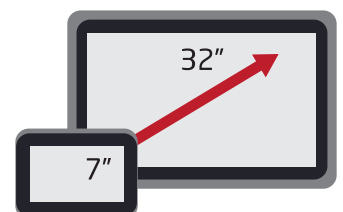
\* Optical bonding is also recommended in large temp. difference environment



16:9 Wide screen & Multi-touch Projective / Resistive Touch Optional



From Intel Atom to 6<sup>th</sup>/8<sup>th</sup> Gen. Core i CPU



Available LCD Sizes from 7" ~ 32"



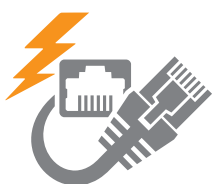
# Optional Power over Ethernet Module

## ► Single Cable for Data and Power Transmission



- With PoE technology, it allows the unit to transmit power and data directly through Ethernet cable. This technology simplifies the installation process and provides centralized power management as a maintenance-free solution.

## ► The Benefit of PoE



• Useful for Powering Remote Devices



• Reduce Cable Wiring



• Time and Cost Savings

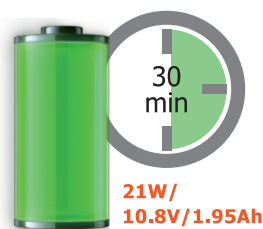


• Easy to Maintain and Upgrade

# ARCHMI Series with Smart Battery

## ► Work as UPS to Save Your Data

An optional smart battery is available to APLEX's ARCHMI-8XX/ 8XXA/ 9XXA/ 9XXB series, which provides up to 30 minutes of emergency backup power source for unexpected power interruption.



\*Note: The backup time would varies on different models or operating temperature

► With Smart Battery Protection

► Without Smart Battery Protection

# Selection Guide

| Model   | ARCHMI-912A/912B | ARCHMI-912WB  | ARCHMI-915A/915B | ARCHMI-916A/916B | ARCHMI-917A/917B | ARCHMI-918A/918B | ARCHMI-919A/919B | ARCHMI-921A/921B |
|---------|------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Display | 12.1" TFT-LCD    | 12.1" TFT-LCD | 15" TFT-LCD      | 15.6" TFT-LCD    | 17" TFT-LCD      | 18.5" TFT-LCD    | 19" TFT-LCD      | 21.5" TFT-LCD    |
| Battery | •                |               | •                | •                | •                | •                | •                | •                |
| PoE     | •                | •             | • (only 9A)      | • (only 9A)      |                  |                  |                  |                  |

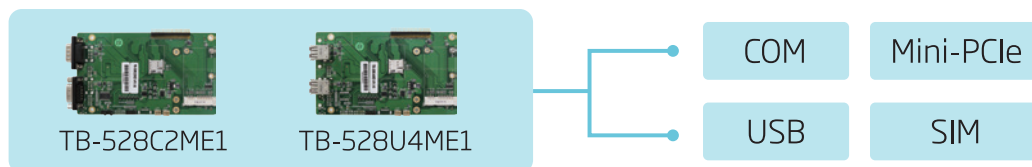
| Model   | ARCHMI-810/810A | ARCHMI-812/812A | ARCHMI-812WA  | ARCHMI-815/815A | ARCHMI-816/816A | ARCHMI-817/817A | ARCHMI-818/818A | ARCHMI-819/819A | ARCHMI-821/821A |
|---------|-----------------|-----------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Display | 10.1" TFT-LCD   | 12.1" TFT-LCD   | 12.1" TFT-LCD | 15" TFT-LCD     | 15.6" TFT-LCD   | 17" TFT-LCD     | 18.5" TFT-LCD   | 19" TFT-LCD     | 21.5" TFT-LCD   |
| Battery | •               | •               | •             | •               | •               | •               | •               | •               | •               |
| PoE     | •               | •               | •             | •               | •               | •               | •               | •               | •               |

\* 10.1" & 12.1": System is only allowed to build in either I/O board TB-528 series or backup battery.

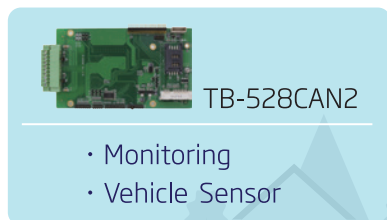
\* above 15": System is only allowed to build in either TB-528 PoE series or backup battery.

# Optional Expansion I/O Boards : TB-528 Series

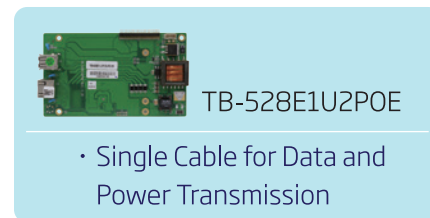
## ▶ Mini-PCle Module



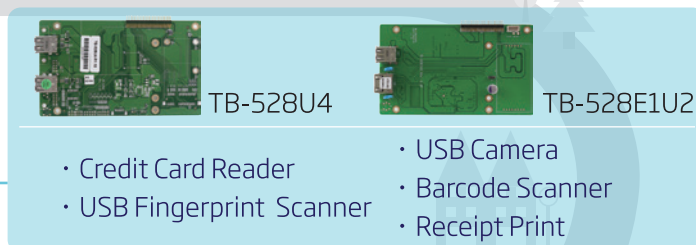
## ▶ CAN bus Module



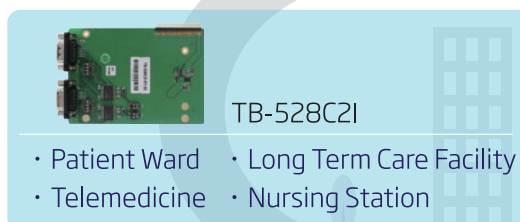
## ▶ PoE Module



## ▶ USB Module



## ▶ Isolation Module



## Selection Guide

| Model             | TB-528U4 | TB-528U4ME1 | TB-528C1U2 | TB-528C1U2P1 | TB-528C2 | TB-528C2ME1 | TB-528C2I | TB-528CAN2 | TB-528E1U2 |
|-------------------|----------|-------------|------------|--------------|----------|-------------|-----------|------------|------------|
| ARCHMI-8/8A/9A/9B | ●        | ●           | ●          | ●            | ●        | ●           | ●         | ●          | ●          |

\* The above listed product does not contain: ARCHMI-807/808(P)H, 807/808ARP(H)

\* PoE Limitation

| Model            | ARCHMI-810 810A | ARCHMI-812 812A | ARCHMI-812WA | ARCHMI-815 | ARCHMI-815A | ARCHMI-816 816A | ARCHMI-817 817A | ARCHMI-818 818A | ARCHMI-819 819A | ARCHMI-821 821A | ARCHMI-912A 912B | ARCHMI-912WB | ARCHMI-915A | ARCHMI-916A |
|------------------|-----------------|-----------------|--------------|------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------|-------------|-------------|
| TB-528 NE1U2 POE | *               | *               |              |            |             |                 |                 |                 |                 |                 |                  |              |             |             |
| TB-528 E1U2 POE  | *               | *               |              | *          |             |                 |                 |                 |                 |                 |                  |              |             |             |
| TB528 E1U2U POE  |                 | ●               | ●            | ●          | ●           | ●               | ●               | *               | 819A*           | 821A*           | *                | *            | *           | *           |

\* PoE limitation: CPU turbo off, rear I/O no loading, 70% LED backlight, PSE cable length < 50m



# ARCHMI-9XXB Series

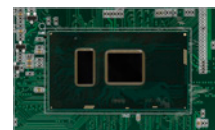
Performance Grade HMI

8<sup>th</sup> Gen. Intel Core i3/i5 Fanless HMI

- Onboard 8<sup>th</sup> Gen. Intel Core i3-8145UE/i5-8365UE Processor
- 1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz
- Flat Front Panel Design Meets IP66
- Easily Accessible Storage Design
- Fanless Design
- Aluminum Die-Casting Chassis



Onboard 8th Gen. Intel Core i3-8145UE / i5-8365UE



1 x SO-DIMM DDR4 up to 32GB



Flat Front Panel Design Meets IP66 Standard



Aluminum Die-Casting Chassis and Fanless Design



Easily Accessible Storage Design



# ARCHMI-9XXB Series

Performance Grade HMI



| Model Name                | ARCHMI-912BRP(H)<br>ARCHMI-912WBPR(H)                                                                                                                       |       |            |       |                       |                   | ARCHMI-915BRP(H) |  |         |                    | ARCHMI-916BRP(H) |         |             |         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-------|-----------------------|-------------------|------------------|--|---------|--------------------|------------------|---------|-------------|---------|
| System                    |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Processor                 | Onboard 8th Gen Intel Corei3-8145UE Processor(2C/4T,2.2GHz) / Intel Corei5-8365UE Processor(4C/8T,1.6GHz)                                                   |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| System Chipset            | SoC                                                                                                                                                         |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| System Memory             | 1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz                                                                                                                 |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| External I/O              |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| USB                       | 4 x USB 3.0 type A                                                                                                                                          |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Serial/Parallel           | 1 x DB-9 connector, including:<br>1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1)<br>1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| LAN                       | 2 x GbE LAN RJ-45                                                                                                                                           |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Audio                     | 1 x Line-out                                                                                                                                                |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| DP                        | 1 x DP                                                                                                                                                      |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                                                                      |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Storage Space             |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Storage                   | 1 x M.2 M Key slot; (Support PCIe/SATA; 2242/2280, Default 2242)                                                                                            |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Movable device            | None                                                                                                                                                        |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Expansion                 |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)<br>1 x Nano SIM card holder                                                                                                   |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Display                   |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Display type              | 12.1" TFT-LCD                                                                                                                                               |       |            |       | 12.1" wide<br>TFT-LCD |                   | 15" TFT-LCD      |  |         |                    | 15.6" TFT-LCD    |         |             |         |
| Max. resolution           | 800 x 600                                                                                                                                                   |       | 1024 x 768 |       | 1280 x 800            |                   | 1024 x 768       |  |         |                    | 1366 x 768       |         | 1920 x 1080 |         |
| Max. color                | 16.2M                                                                                                                                                       |       |            |       | 16.7M                 |                   | 16.2M            |  | 16.7M   |                    | 16.7M            |         | 16.2M       |         |
| Luminance(cd/m²)          | 450                                                                                                                                                         | 1000  | 500        | 1000  | 600                   | 1000              | 300              |  | 1000    |                    | 400              | 1000    | 450         | 1000    |
| View angle(H°/V°)         | 178/178                                                                                                                                                     |       |            |       | 170/170               | 176/176           | 176/176          |  | 176/176 |                    | 170/160          | 160/160 | 170/170     | 170/170 |
| Backlight lifetime(hrs)   | 50000                                                                                                                                                       | 50000 | 30000      | 70000 | 50000                 | 50000             | 70000            |  | 70000   |                    | 50000            | 50000   | 50000       | 50000   |
| Touch Screen              |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Type                      | Resistive Touch(For BR model)<br>Projected Capacitive(For BP model)                                                                                         |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Interface                 | USB                                                                                                                                                         |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive Touch : 88%±2%                                                                                                |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Power                     |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Power input               | DC 9~36V                                                                                                                                                    |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Power Consumption (TYP.)  | 56W                                                                                                                                                         |       |            |       | 50W                   |                   | 60W              |  |         |                    | 60W              |         |             |         |
| Mechanical                |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Construction              | Aluminum die-casting Chassis                                                                                                                                |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| IP rating                 | IP66 Compliant Front Bezel                                                                                                                                  |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Mounting                  | Panel Mount , VESA 100x100                                                                                                                                  |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Dimension(mm)             | 319 x 245 x 51.7                                                                                                                                            |       |            |       | 328 x 227 x 57.6      | 410 x 310 x 54.67 |                  |  |         | 412 x 277.5 x 58.9 |                  |         |             |         |
| Net weight(Kg)            | 2.8                                                                                                                                                         |       |            |       | 2.9                   |                   | 4.4              |  |         |                    | 4.5              |         |             |         |
| Environment               |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                                                       |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Storage temperature(°C)   | -30~70                                                                                                                                                      |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                           |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Certification             | CE/FCC Class A                                                                                                                                              |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Operating System Support  |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |
| Windows 10 IoT            |                                                                                                                                                             |       |            |       |                       |                   |                  |  |         |                    |                  |         |             |         |





| Model Name                | ARCHMI-917BPR(H)                                                                                                                                            |  |         | ARCHMI-918BPR(H)     |         |           | ARCHMI-919BRP(H) |             |         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|----------------------|---------|-----------|------------------|-------------|---------|
| System                    |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Processor                 | Onboard 8th Gen Intel Corei3-8145UE Processor(2C/4T,2.2GHz) / Intel Corei5-8365UE Processor(4C/8T,1.6GHz)                                                   |  |         |                      |         |           |                  |             |         |
| System Chipset            | SoC                                                                                                                                                         |  |         |                      |         |           |                  |             |         |
| System Memory             | 1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz                                                                                                                 |  |         |                      |         |           |                  |             |         |
| External I/O              |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| USB                       | 4 x USB 3.0 type A                                                                                                                                          |  |         |                      |         |           |                  |             |         |
| Serial/Parallel           | 1 x DB-9 connector, including:<br>1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1)<br>1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable |  |         |                      |         |           |                  |             |         |
| LAN                       | 2 x GbE LAN RJ-45                                                                                                                                           |  |         |                      |         |           |                  |             |         |
| Audio                     | 1 x Line-out                                                                                                                                                |  |         |                      |         |           |                  |             |         |
| DP                        | 1 x DP                                                                                                                                                      |  |         |                      |         |           |                  |             |         |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                                                                      |  |         |                      |         |           |                  |             |         |
| Storage Space             |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Storage                   | 1 x M.2 M Key slot; (Support PCIe/SATA; 2242/2280, Default 2242)                                                                                            |  |         |                      |         |           |                  |             |         |
| Movable device            | None                                                                                                                                                        |  |         |                      |         |           |                  |             |         |
| Expansion                 |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)<br>1 x Nano SIM card holder                                                                                                   |  |         |                      |         |           |                  |             |         |
| Display                   |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Display type              | 17" TFT-LCD                                                                                                                                                 |  |         | 18.5" TFT-LCD        |         |           | 19" TFT-LCD      |             |         |
| Max. resolution           | 1280 x 1024                                                                                                                                                 |  |         | 1366 x 768           |         | 1920x1080 |                  | 1280 x 1024 |         |
| Max. color                | 16.2M                                                                                                                                                       |  | 16.7M   |                      | 16.7M   |           | 16.7M            |             | 16.7M   |
| Luminance(cd/m²)          | 350                                                                                                                                                         |  | 1000    |                      | 300     |           | 1000             |             | 300     |
| View angle(H°/V°)         | 170/160                                                                                                                                                     |  | 140/140 |                      | 170/160 |           | 178/178          |             | 178/178 |
| Backlight lifetime(hrs)   | 30000                                                                                                                                                       |  | 50000   |                      | 50000   |           | 40000            |             | 50000   |
| Touch Screen              |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Type                      | Resistive Touch(For BR model)<br>Projected Capacitive(For BP model)                                                                                         |  |         |                      |         |           |                  |             |         |
| Interface                 | USB                                                                                                                                                         |  |         |                      |         |           |                  |             |         |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive Touch : 88%±2%                                                                                                |  |         |                      |         |           |                  |             |         |
| Power                     |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Power input               | DC 9~36V                                                                                                                                                    |  |         |                      |         |           |                  |             |         |
| Power Consumption         | 86W                                                                                                                                                         |  |         | 70W                  |         |           | 82W              |             |         |
| Mechanical                |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Construction              | Aluminum die-casting Chassis                                                                                                                                |  |         |                      |         |           |                  |             |         |
| IP rating                 | IP66 Compliant Front Bezel                                                                                                                                  |  |         |                      |         |           |                  |             |         |
| Mounting                  | Panel Mount , VESA 100x100                                                                                                                                  |  |         |                      |         |           |                  |             |         |
| Dimension(mm)             | 439 x 348 x 64.8                                                                                                                                            |  |         | 499.6 x 314.6 x 65.4 |         |           | 468 x 380 x 64.8 |             |         |
| Net weight(Kg)            | 6.3                                                                                                                                                         |  |         | 6.7                  |         |           | 7.3              |             |         |
| Environment               |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                                                       |  |         |                      |         |           |                  |             |         |
| Storage temperature(°C)   | -30~70                                                                                                                                                      |  |         |                      |         |           |                  |             |         |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                           |  |         |                      |         |           |                  |             |         |
| Certification             | CE/FCC Class A                                                                                                                                              |  |         |                      |         |           |                  |             |         |
| Operating System Support  |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |
| Windows 10 IoT            |                                                                                                                                                             |  |         |                      |         |           |                  |             |         |

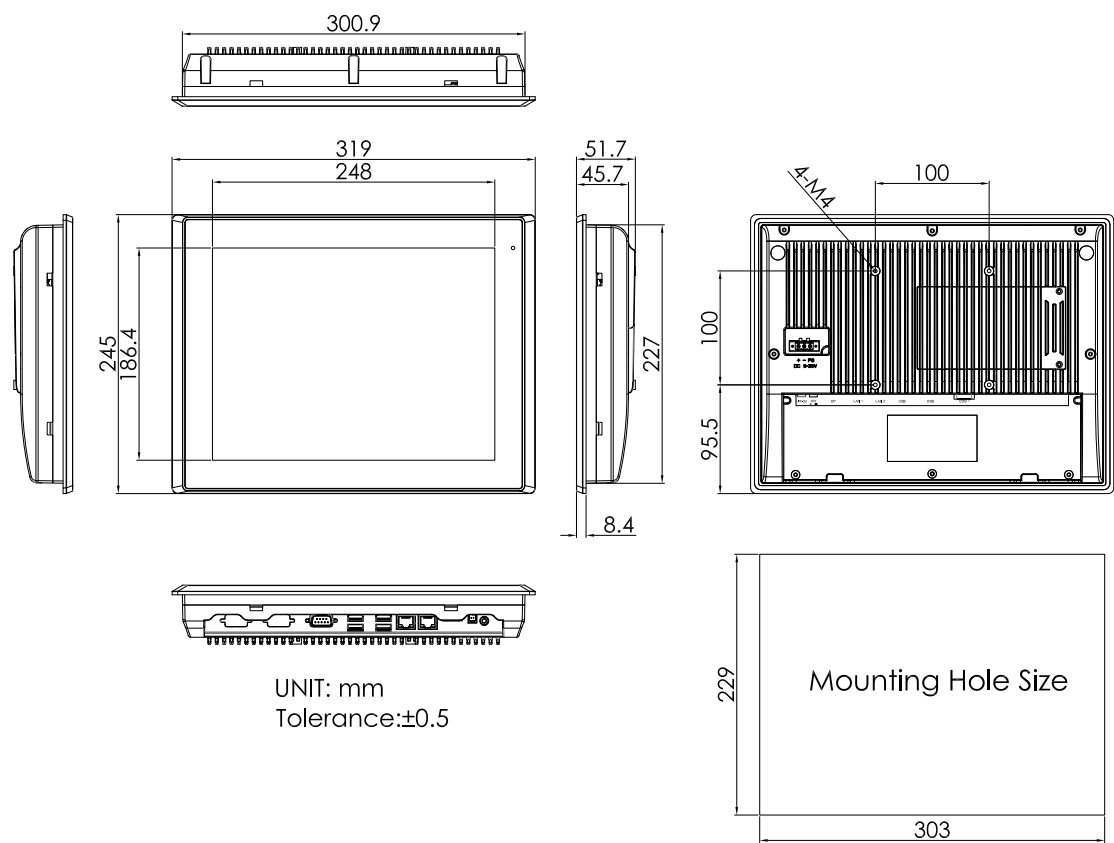
# ARCHMI-9XXB Series

Performance Grade HMI



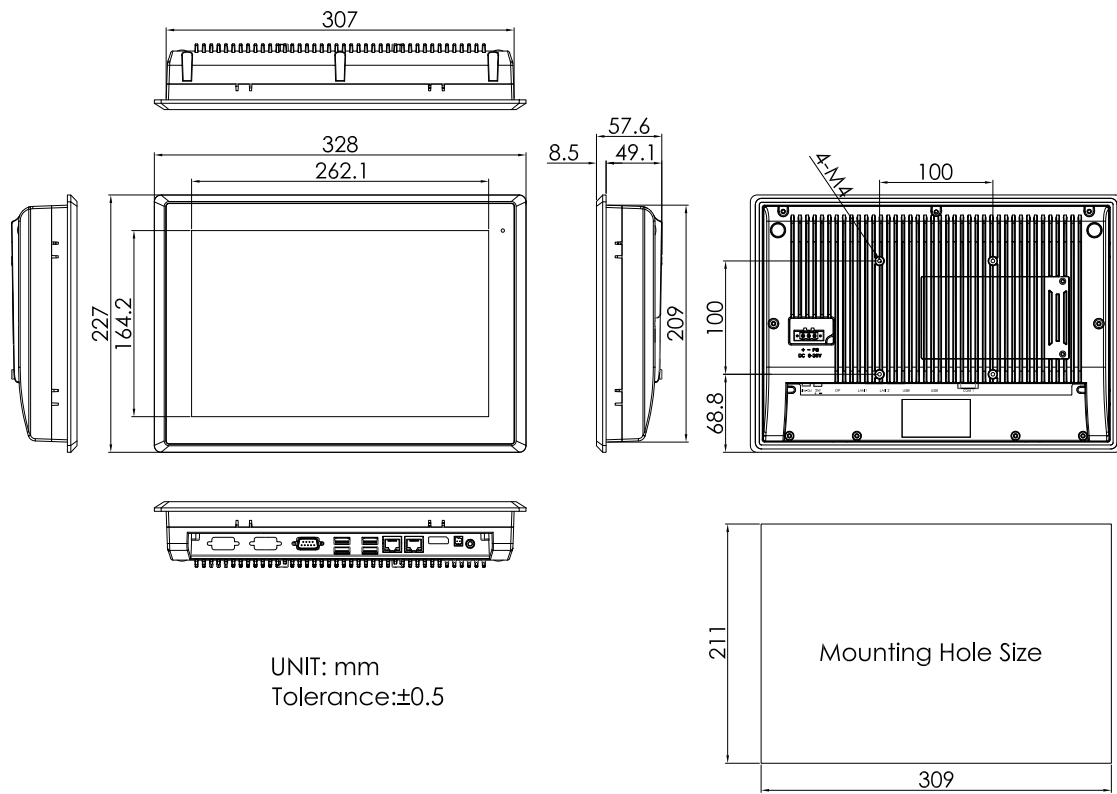
| Model Name                | ARCHMI-921BRP(H)                                                                                                                                            |                                                           | ARCHMI-932BP                                           |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------|--|
| System                    |                                                                                                                                                             |                                                           |                                                        |  |
| Processor                 | Onboard 8th Gen Intel Corei3-8145UE Processor(2C/4T,2.2GHz) / Intel Corei5-8365UE Processor(4C/8T,1.6GHz)                                                   |                                                           |                                                        |  |
| System Chipset            | SoC                                                                                                                                                         |                                                           |                                                        |  |
| System Memory             | 1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz                                                                                                                 |                                                           |                                                        |  |
| External I/O              |                                                                                                                                                             |                                                           |                                                        |  |
| USB                       |                                                                                                                                                             | 4 x USB 3.0 type A                                        |                                                        |  |
| Serial/Parallel           | 1 x DB-9 connector, including:<br>1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1)<br>1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable |                                                           |                                                        |  |
| LAN                       |                                                                                                                                                             | 2 x GbE LAN RJ-45                                         |                                                        |  |
| Audio                     | 1 x Line-out                                                                                                                                                |                                                           |                                                        |  |
| DP                        |                                                                                                                                                             | 1 x DP                                                    |                                                        |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                                                                      |                                                           | 1 x AC Power Input<br>1 x 2-pin Power Switch connector |  |
| Storage Space             |                                                                                                                                                             |                                                           |                                                        |  |
| Storage                   | 1 x M.2 M Key slot; (Support PCIe/SATA; 2242/2280, Default 2242)                                                                                            |                                                           |                                                        |  |
| Movable device            | None                                                                                                                                                        |                                                           |                                                        |  |
| Expansion                 |                                                                                                                                                             |                                                           |                                                        |  |
| Onboard expansion bus     |                                                                                                                                                             | 1 x mini-PCIe slot(full size)<br>1 x Nano SIM card holder |                                                        |  |
| Display                   |                                                                                                                                                             |                                                           |                                                        |  |
| Display type              | 21.5" TFT-LCD                                                                                                                                               |                                                           | 32" TFT-LCD                                            |  |
| Max. resolution           | 1920 x 1080                                                                                                                                                 |                                                           | 1920 x 1080                                            |  |
| Max. color                | 16.7M                                                                                                                                                       | 16.7M                                                     | 16.7M                                                  |  |
| Luminance(cd/m²)          | 250                                                                                                                                                         | 1000                                                      | 500                                                    |  |
| View angle(H°/V°)         | 178/178                                                                                                                                                     | 178/178                                                   | 178/178                                                |  |
| Backlight lifetime(hrs)   | 50000                                                                                                                                                       | 50000                                                     | 50000                                                  |  |
| Touch Screen              |                                                                                                                                                             |                                                           |                                                        |  |
| Type                      | Resistive Touch(For BR model)<br>Projected Capacitive(For BP model)                                                                                         |                                                           | Projected Capacitive                                   |  |
| Interface                 |                                                                                                                                                             | USB                                                       |                                                        |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive Touch : 88%±2%                                                                                                |                                                           | 90%                                                    |  |
| Power                     |                                                                                                                                                             |                                                           |                                                        |  |
| Power input               | DC 9~36V                                                                                                                                                    |                                                           | AC 90~264V                                             |  |
| Power Consumption (TYP.)  | 74W                                                                                                                                                         |                                                           | 75W                                                    |  |
| Mechanical                |                                                                                                                                                             |                                                           |                                                        |  |
| Construction              |                                                                                                                                                             | Aluminum Die-casting Front Bezel and Chassis              |                                                        |  |
| IP rating                 | Aluminum die-casting Chassis                                                                                                                                |                                                           |                                                        |  |
| Mounting                  | Panel Mount , VESA 100x100                                                                                                                                  |                                                           | Panel Mount , VESA 200x200                             |  |
| Dimension(mm)             | 557 x 362 x 64.8                                                                                                                                            |                                                           | 810 x 490 x 65                                         |  |
| Net weight(Kg)            | 7.5                                                                                                                                                         |                                                           | 17.4                                                   |  |
| Environment               |                                                                                                                                                             |                                                           |                                                        |  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                                                       |                                                           | 0 ~ 50                                                 |  |
| Storage temperature(°C)   |                                                                                                                                                             | -30~70                                                    |                                                        |  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                           |                                                           |                                                        |  |
| Certification             |                                                                                                                                                             | CE/FCC Class A                                            |                                                        |  |
| Operating System Support  |                                                                                                                                                             |                                                           |                                                        |  |
| Windows 10 IoT            |                                                                                                                                                             |                                                           |                                                        |  |

ARCHMI-912B/R/P/H



unit:mm

ARCHMI-912WB/R/P/H

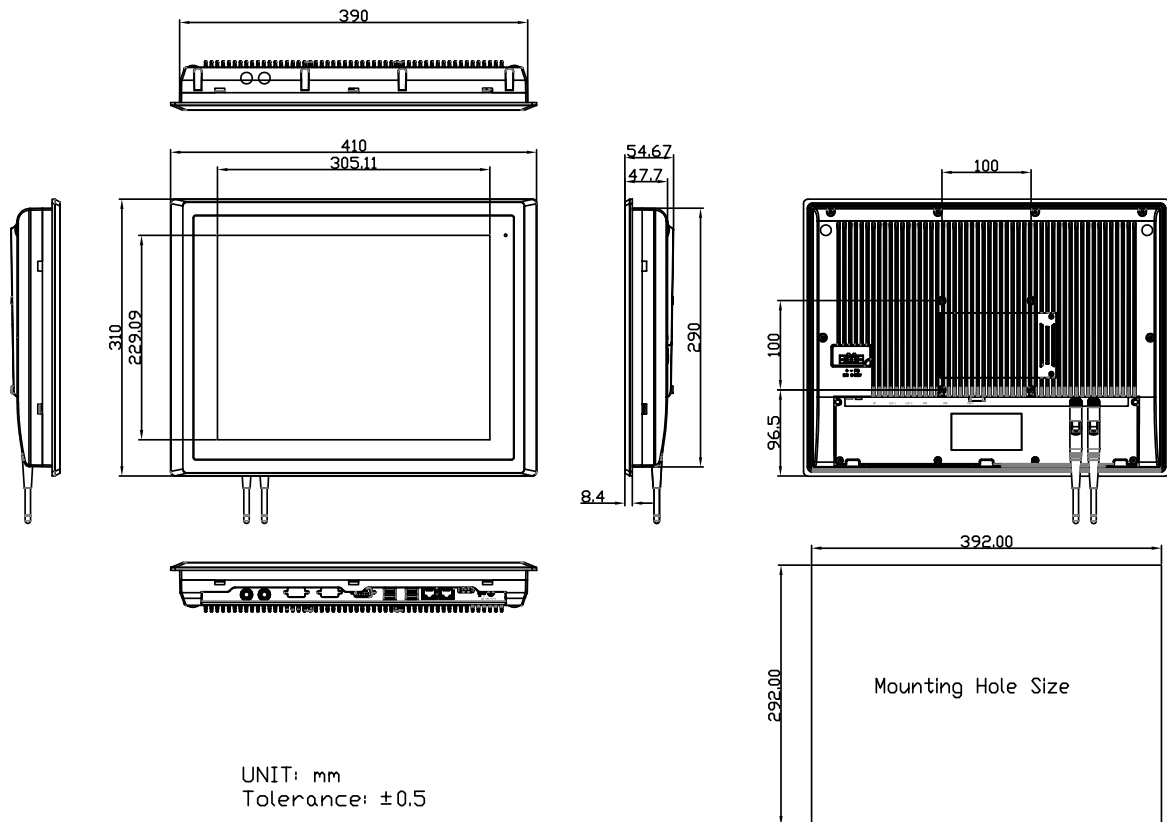


unit:mm

## ARCHMI-9XXB Series

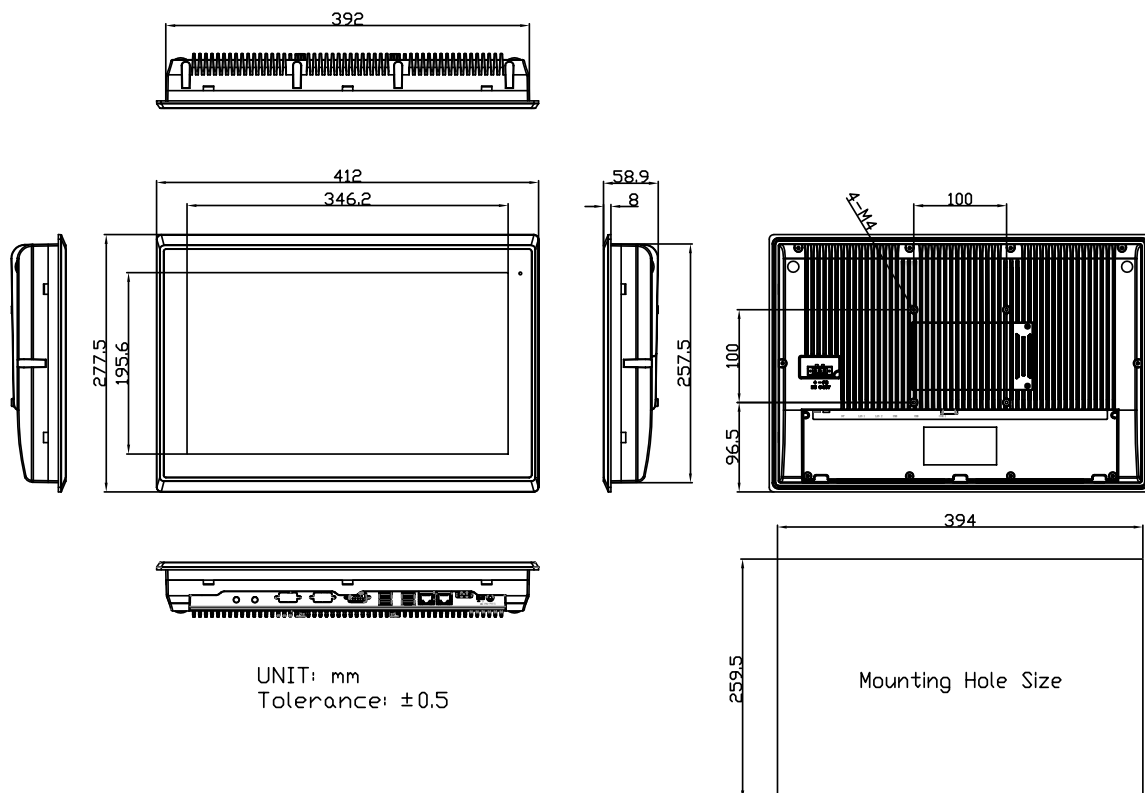
Performance Grade HMI

### ARCHMI-915B/R/P/H



unit:mm

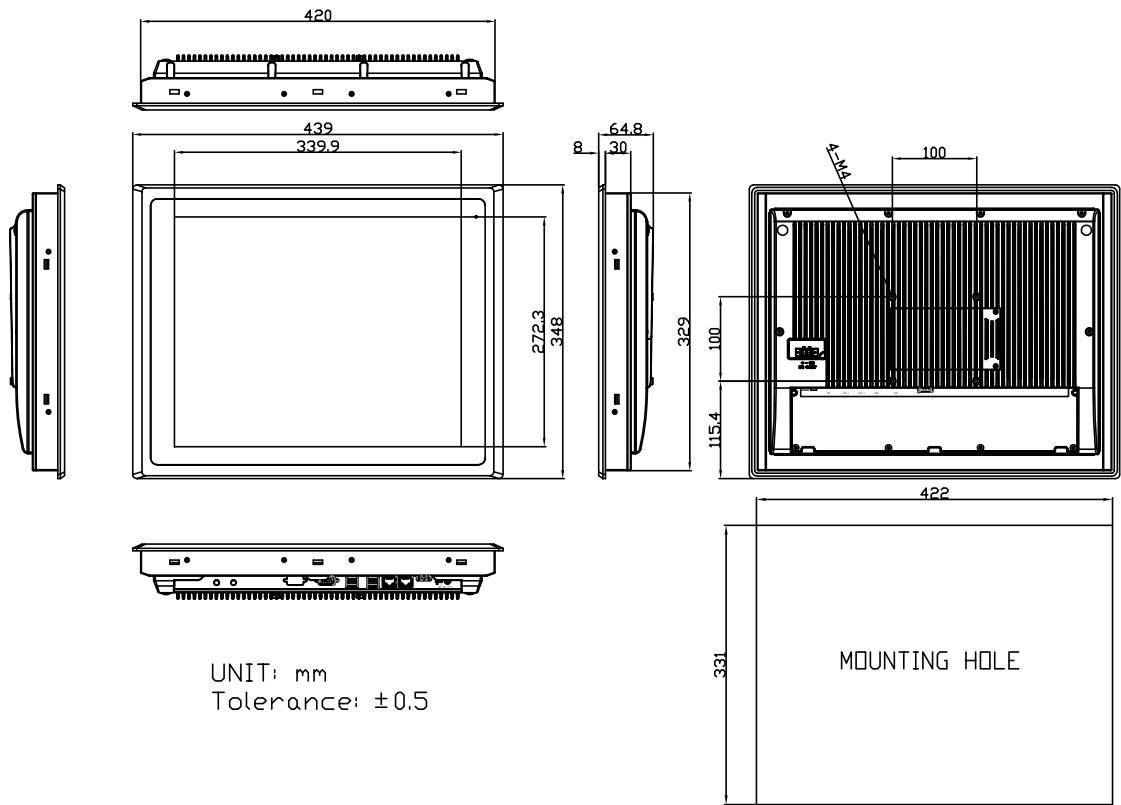
### ARCHMI-916B/R/P/H



unit:mm

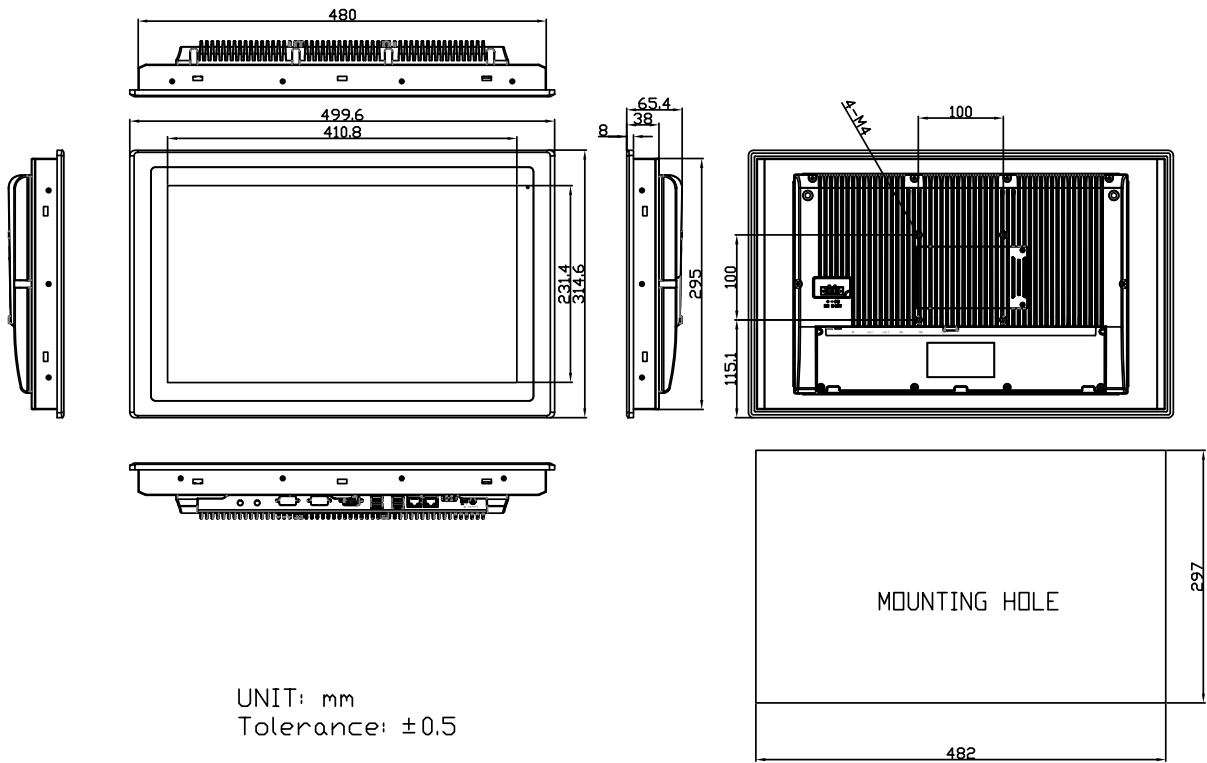


ARCHMI-917B/R/P/H



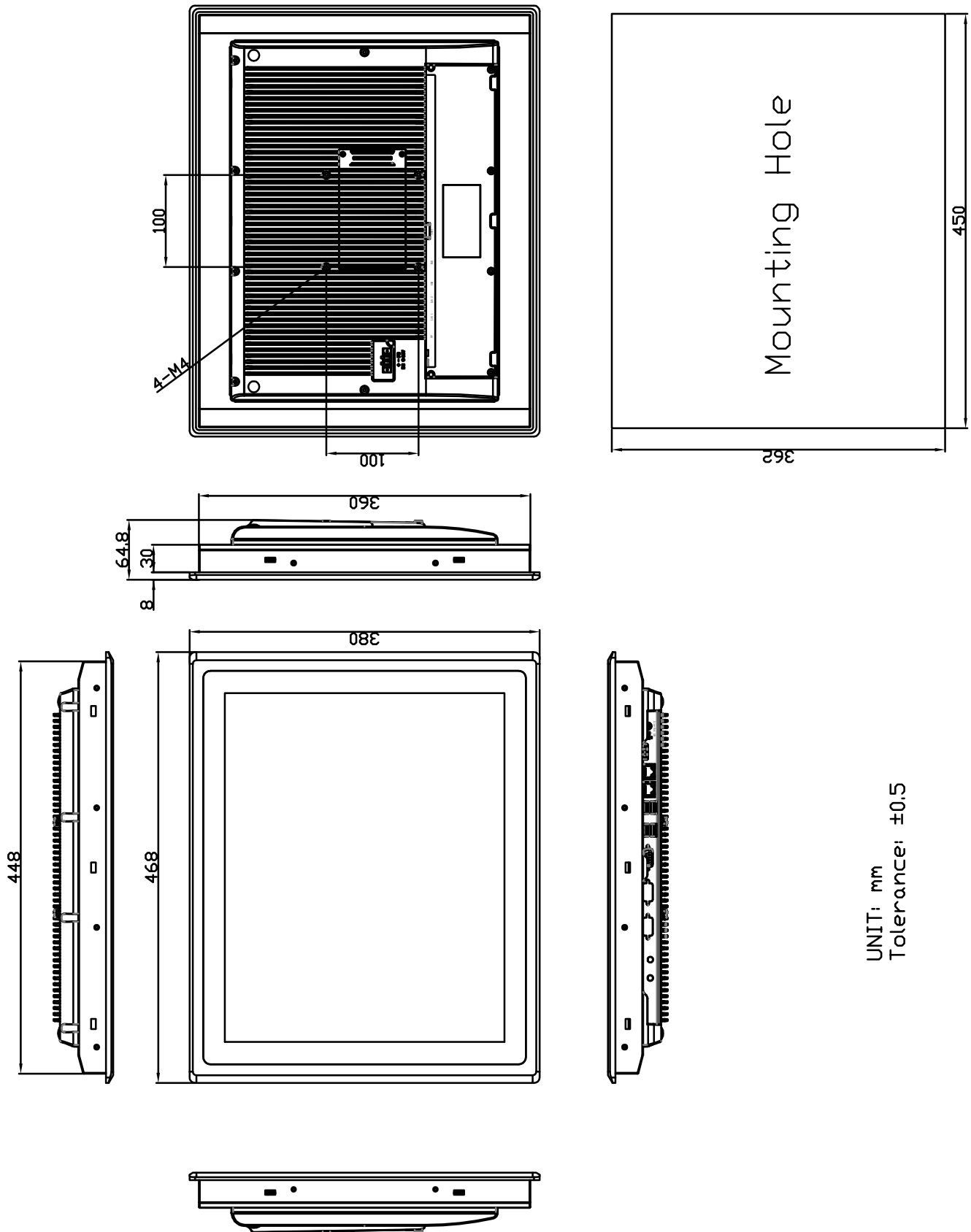
unit:mm

ARCHMI-918B/R/P/H



unit:mm

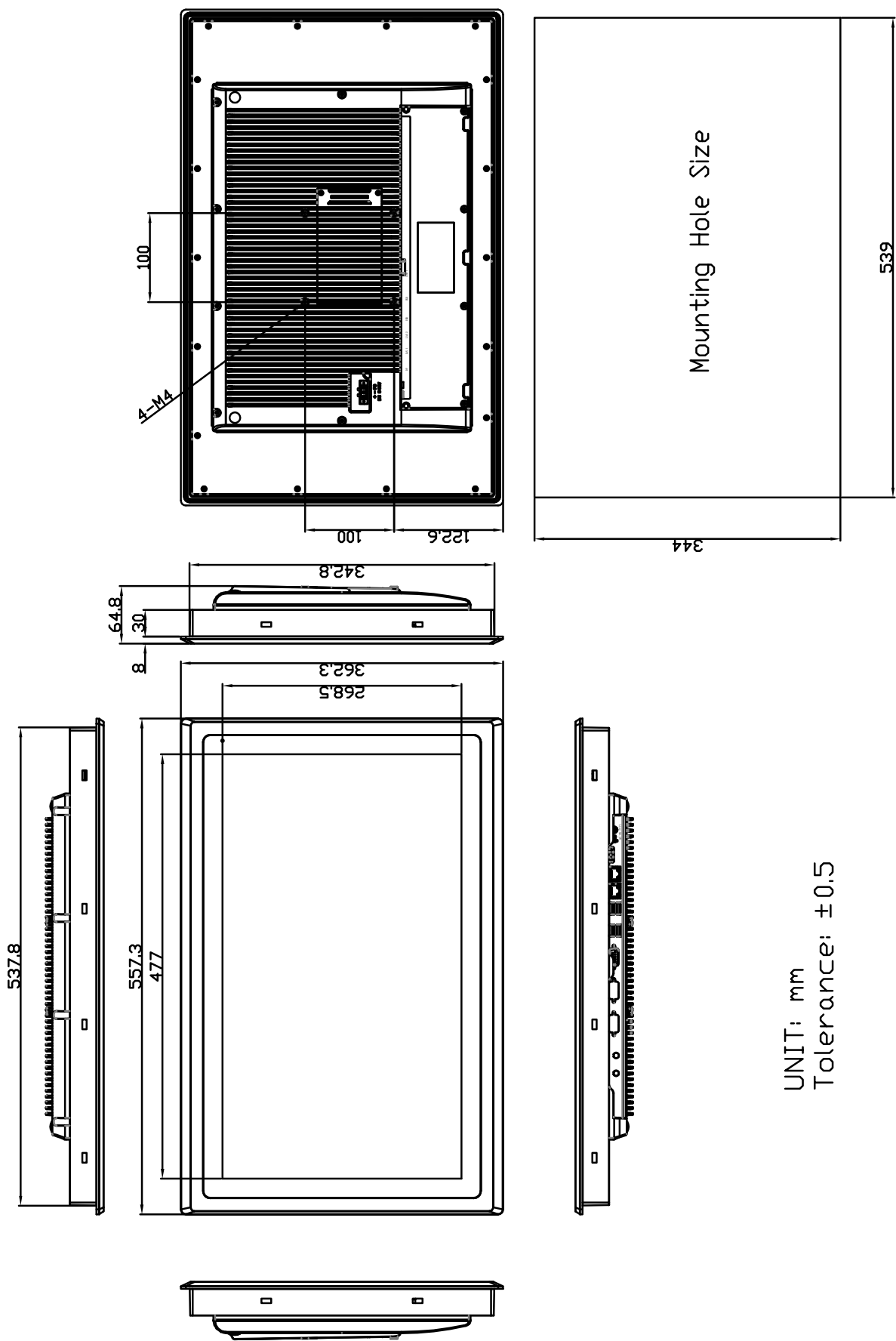
## ARCHMI-919B/R/P/H



UNIT: mm  
Tolerance:  $\pm 0.5$

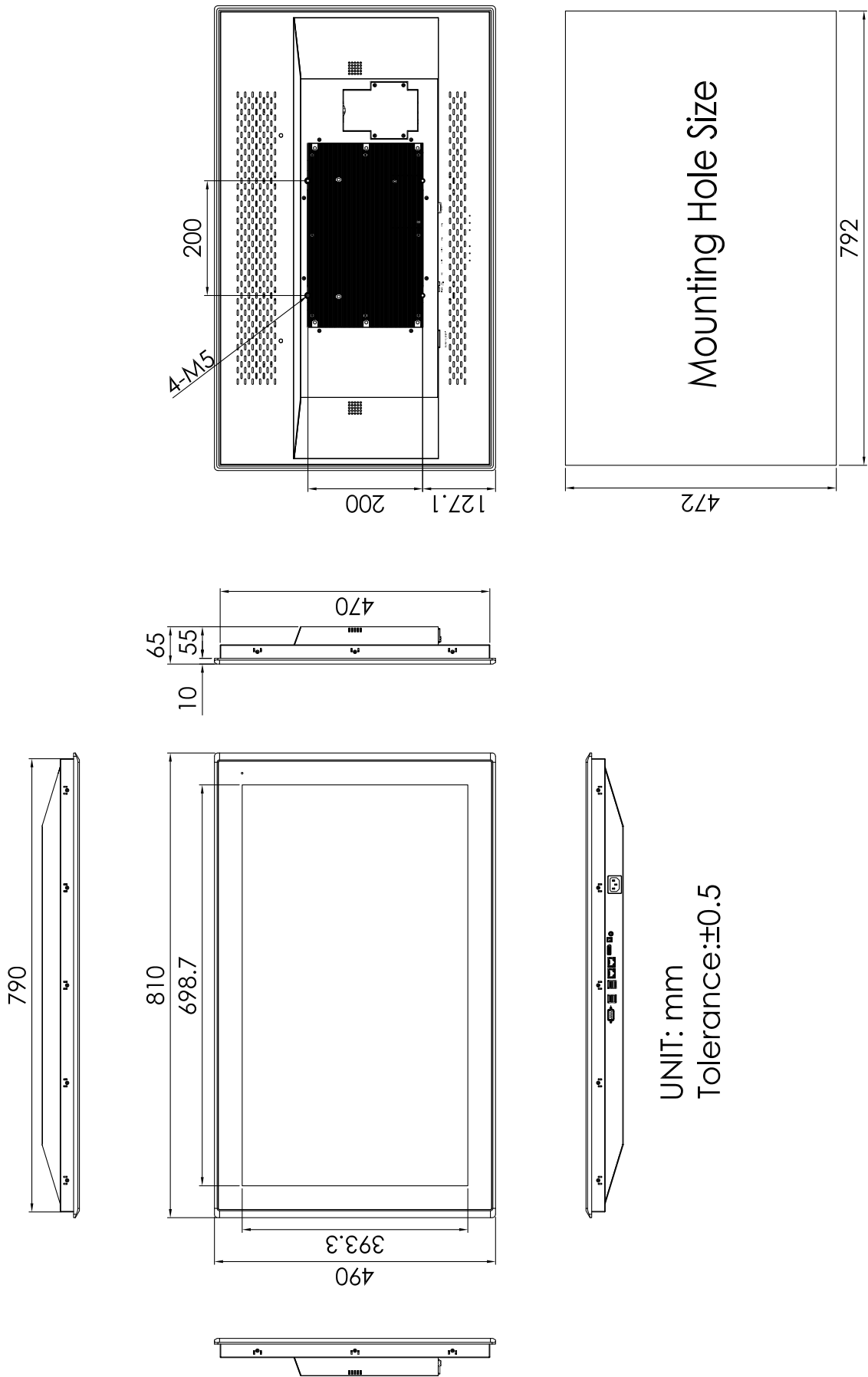
unit:mm

ARCHMI-921B/R/P/H



unit:mm

ARCHMI-932B/R/P/H



unit:mm





# ARCHMI-9XXA Series

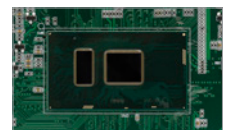
Performance Grade HMI

Intel Skylake Platform Fanless HMI

- 6<sup>th</sup> Gen. Intel® Core™ i5-6300U/i3-6100U
- 1 x SO-DIMM DDR4 up to 16GB
- Flat Front Panel Design Meets IP66
- Easily Accessible Storage Design
- Fanless Design
- Aluminum Die-Casting Chassis



6<sup>th</sup> Generation Intel®  
Core™ i5-6300U/i3-  
6100U



1 x SO-DIMM DDR4 up  
to 16GB



Flat Front Panel Design  
Meets IP66 Standard



Aluminum Die-Casting  
Chassis and Fanless  
Design



Easily Accessible  
Storage Design



# ARCHMI-9XXA Series

Performance Grade HMI



| Model Name                | ARCHMI-912APR(H)                                                                                                    |       |            |       | ARCHMI-915APR(H)  |       |         |       | ARCHMI-916APR(H)   |         |             |         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|-------|------------|-------|-------------------|-------|---------|-------|--------------------|---------|-------------|---------|
| System                    |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Processor                 | Onboard 6th Gen Intel Core i3-6100U Processor(3M Cache,2.30 GHz) / Intel Core i5-6300U Processor(3M Cache,2.30 GHz) |       |            |       |                   |       |         |       |                    |         |             |         |
| System Chipset            | SoC                                                                                                                 |       |            |       |                   |       |         |       |                    |         |             |         |
| System Memory             | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                         |       |            |       |                   |       |         |       |                    |         |             |         |
| External I/O              |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| USB                       | 2 x USB 3.0 type A                                                                                                  |       |            |       |                   |       |         |       |                    |         |             |         |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                                               |       |            |       |                   |       |         |       |                    |         |             |         |
| LAN                       | 2 x GbE RJ-45                                                                                                       |       |            |       |                   |       |         |       |                    |         |             |         |
| Audio                     | 1 x Line-out                                                                                                        |       |            |       |                   |       |         |       |                    |         |             |         |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                              |       |            |       |                   |       |         |       |                    |         |             |         |
| Storage Space             |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| HDD                       | 1 x 2.5" SATA3 HDD space                                                                                            |       |            |       |                   |       |         |       |                    |         |             |         |
| Movable device            | None                                                                                                                |       |            |       |                   |       |         |       |                    |         |             |         |
| Expansion                 |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)                                                                                       |       |            |       |                   |       |         |       |                    |         |             |         |
| Display                   |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Display type              | 12.1" TFT-LCD                                                                                                       |       |            |       | 15" TFT-LCD       |       |         |       | 15.6" TFT-LCD      |         |             |         |
| Max. resolution           | 800 x 600                                                                                                           |       | 1024 x 768 |       | 1024 x 768        |       |         |       | 1366 x 768         |         | 1920 x 1080 |         |
| Max. color                | 16.2M                                                                                                               |       |            |       | 16.2M             |       | 16.7M   |       | 16.7M              |         | 16.2M       |         |
| Luminance(cd/m²)          | 450                                                                                                                 | 1000  | 500        | 1000  | 300               | 1000  |         | 400   | 1000               | 450     | 1000        |         |
| View angle(H°/V°)         | 178/178                                                                                                             |       |            |       | 176/176           |       | 176/176 |       | 170/160            | 160/160 | 170/170     | 170/170 |
| Backlight lifetime(hrs)   | 50000                                                                                                               | 50000 | 30000      | 70000 | 70000             | 70000 |         | 50000 | 50000              | 50000   | 50000       |         |
| Touch Screen              |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Type                      | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                                                 |       |            |       |                   |       |         |       |                    |         |             |         |
| Interface                 | USB                                                                                                                 |       |            |       |                   |       |         |       |                    |         |             |         |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                 |       |            |       |                   |       |         |       |                    |         |             |         |
| Power                     |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Power input               | DC 9~36V                                                                                                            |       |            |       |                   |       |         |       |                    |         |             |         |
| Power Consumption (TYP.)  | 47W                                                                                                                 |       |            |       | 41W               |       |         |       | 46W                |         |             |         |
| Mechanical                |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Construction              | Aluminum die-casting Chassis                                                                                        |       |            |       |                   |       |         |       |                    |         |             |         |
| IP rating                 | IP66 Compliant Front Bezel                                                                                          |       |            |       |                   |       |         |       |                    |         |             |         |
| Mounting                  | Panel Mount , VESA 100x100                                                                                          |       |            |       |                   |       |         |       |                    |         |             |         |
| Dimension(mm)             | 319 x 245 x 51.7                                                                                                    |       |            |       | 410 x 310 x 54.67 |       |         |       | 412 x 277.5 x 58.9 |         |             |         |
| Net weight(Kg)            | 2.8                                                                                                                 |       |            |       | 4.4               |       |         |       | 4.5                |         |             |         |
| Environment               |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                               |       |            |       |                   |       |         |       |                    |         |             |         |
| Storage temperature(°C)   | -30~70                                                                                                              |       |            |       |                   |       |         |       |                    |         |             |         |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                 |       |            |       |                   |       |         |       |                    |         |             |         |
| Certification             | CE/FCC Class A/UL                                                                                                   |       |            |       |                   |       |         |       |                    |         |             |         |
| Operating System Support  |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |
| Windows 10 IoT            |                                                                                                                     |       |            |       |                   |       |         |       |                    |         |             |         |



| Model Name                | ARCHMI-917APR(H) |                                                                                                                     |  | ARCHMI-918APR(H)     |  |             | ARCHMI-919APR(H) |             |  |
|---------------------------|------------------|---------------------------------------------------------------------------------------------------------------------|--|----------------------|--|-------------|------------------|-------------|--|
| System                    |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Processor                 |                  | Onboard 6th Gen Intel Core i3-6100U Processor(3M Cache,2.30 GHz) / Intel Core i5-6300U Processor(3M Cache,2.30 GHz) |  |                      |  |             |                  |             |  |
| System Chipset            |                  | SoC                                                                                                                 |  |                      |  |             |                  |             |  |
| System Memory             |                  | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                         |  |                      |  |             |                  |             |  |
| External I/O              |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| USB                       |                  | 2 x USB 3.0 type A                                                                                                  |  |                      |  |             |                  |             |  |
| Serial/Parallel           |                  | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                                               |  |                      |  |             |                  |             |  |
| LAN                       |                  | 2 x GbE RJ-45                                                                                                       |  |                      |  |             |                  |             |  |
| Audio                     |                  | 1 x Line-out                                                                                                        |  |                      |  |             |                  |             |  |
| Power connector           |                  | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                              |  |                      |  |             |                  |             |  |
| Storage Space             |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| HDD                       |                  | 1 x 2.5" SATA3 HDD space                                                                                            |  |                      |  |             |                  |             |  |
| Movable device            |                  | None                                                                                                                |  |                      |  |             |                  |             |  |
| Expansion                 |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Onboard expansion bus     |                  | 1 x mini-PCIe slot(full size)                                                                                       |  |                      |  |             |                  |             |  |
| Display                   |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Display type              |                  | 17" TFT-LCD                                                                                                         |  | 18.5" TFT-LCD        |  |             | 19" TFT-LCD      |             |  |
| Max. resolution           |                  | 1280 x 1024                                                                                                         |  | 1366 x 768           |  | 1920 x 1080 |                  | 1280 x 1024 |  |
| Max. color                |                  | 16.2M                                                                                                               |  | 16.7M                |  | 16.7M       |                  | 16.7M       |  |
| Luminance(cd/m²)          |                  | 350                                                                                                                 |  | 1000                 |  | 300         |                  | 1000        |  |
| View angle(H°/V°)         |                  | 170/160                                                                                                             |  | 140/140              |  | 170/160     |                  | 178/178     |  |
| Backlight lifetime(hrs)   |                  | 30000                                                                                                               |  | 50000                |  | 50000       |                  | 40000       |  |
| Touch Screen              |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Type                      |                  | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                                                 |  |                      |  |             |                  |             |  |
| Interface                 |                  | USB                                                                                                                 |  |                      |  |             |                  |             |  |
| Light transmission(%)     |                  | Resistive Touch : 80%<br>Projected Capacitive : 90%                                                                 |  |                      |  |             |                  |             |  |
| Power                     |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Power input               |                  | DC 9~36V                                                                                                            |  |                      |  |             |                  |             |  |
| Power Consumption         |                  | 54W                                                                                                                 |  | 55W                  |  |             | 54W              |             |  |
| Mechanical                |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Construction              |                  | Aluminum die-casting Chassis                                                                                        |  |                      |  |             |                  |             |  |
| IP rating                 |                  | IP66 Compliant Front Bezel                                                                                          |  |                      |  |             |                  |             |  |
| Mounting                  |                  | Panel Mount , VESA 100x100                                                                                          |  |                      |  |             |                  |             |  |
| Dimension(mm)             |                  | 439 x 348 x 64.8                                                                                                    |  | 499.6 x 314.6 x 65.4 |  |             | 468 x 380 x 64.8 |             |  |
| Net weight(Kg)            |                  | 6.25                                                                                                                |  | 6                    |  |             | 7.3              |             |  |
| Environment               |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Operating temperature(°C) |                  | 0 ~ 50/-20~60(option)                                                                                               |  |                      |  |             |                  |             |  |
| Storage temperature(°C)   |                  | -30~70                                                                                                              |  |                      |  |             |                  |             |  |
| Humidity                  |                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                 |  |                      |  |             |                  |             |  |
| Certification             |                  | CE/FCC Class A/UL                                                                                                   |  |                      |  |             |                  |             |  |
| Operating System Support  |                  |                                                                                                                     |  |                      |  |             |                  |             |  |
| Windows 10 IoT            |                  |                                                                                                                     |  |                      |  |             |                  |             |  |

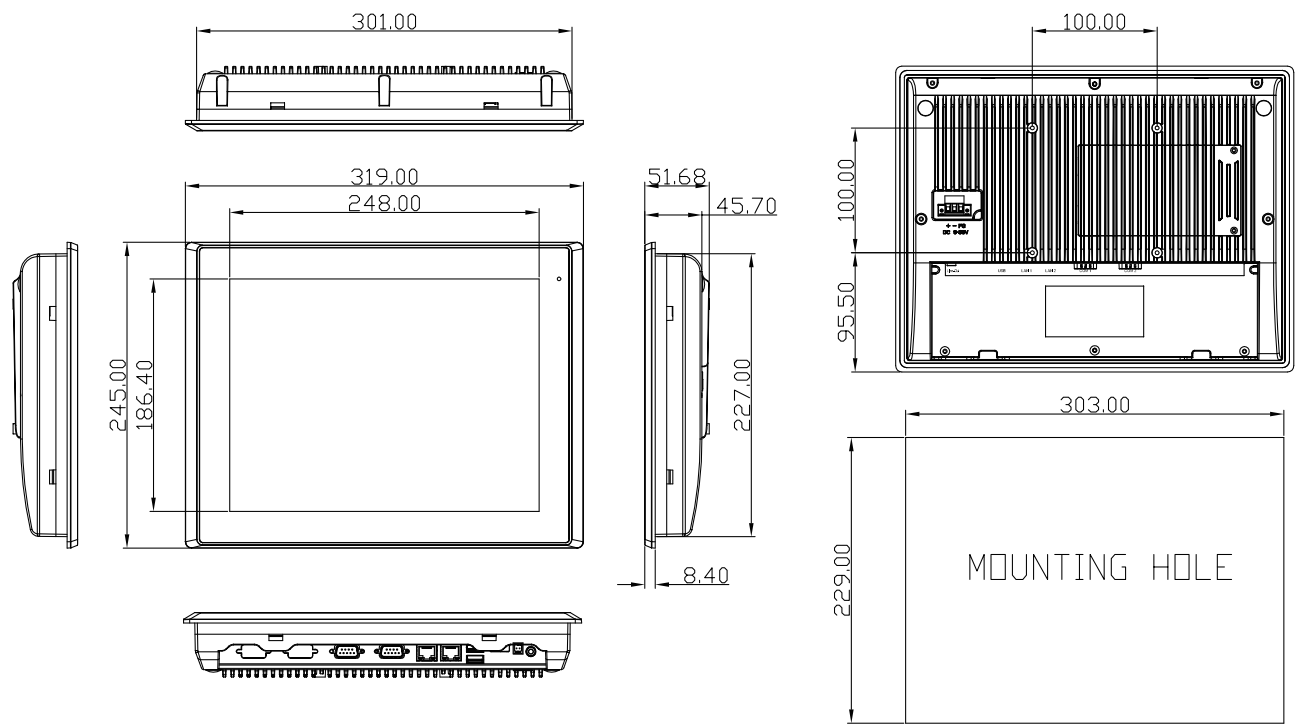
# ARCHMI-9XXA Series

Performance Grade HMI



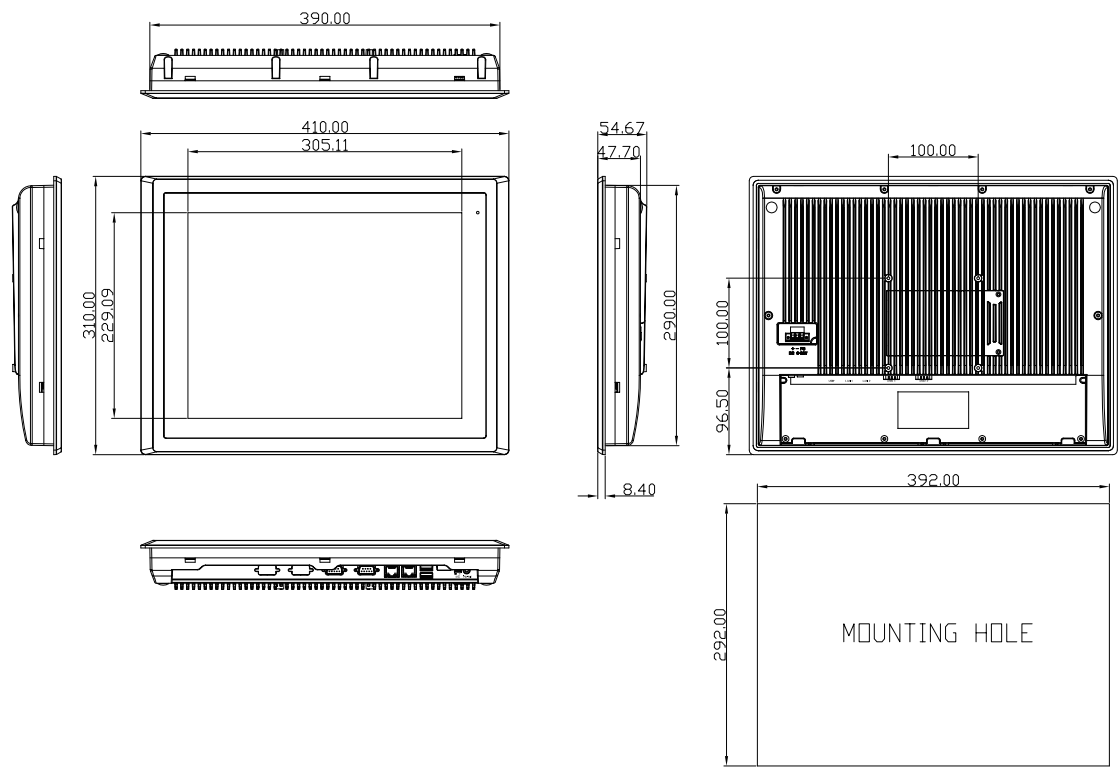
| Model Name                | ARCHMI-921APR(H)                                                                                                    |         | ARCHMI-932AP                                           |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------|--|
| System                    |                                                                                                                     |         |                                                        |  |
| Processor                 | Onboard 6th Gen Intel Core i3-6100U Processor(3M Cache,2.30 GHz) / Intel Core i5-6300U Processor(3M Cache,2.30 GHz) |         |                                                        |  |
| System Chipset            | SoC                                                                                                                 |         |                                                        |  |
| System Memory             | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                         |         |                                                        |  |
| External I/O              |                                                                                                                     |         |                                                        |  |
| USB                       | 2 x USB 3.0 type A                                                                                                  |         |                                                        |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                                               |         |                                                        |  |
| LAN                       | 2 x GbE RJ-45                                                                                                       |         |                                                        |  |
| Audio                     | 1 x Line-out                                                                                                        |         |                                                        |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                              |         | 1 x AC Power Input<br>1 x 2-pin Power Switch connector |  |
| Storage Space             |                                                                                                                     |         |                                                        |  |
| HDD                       | 1 x 2.5" SATA3 HDD space                                                                                            |         |                                                        |  |
| Movable device            | None                                                                                                                |         |                                                        |  |
| Expansion                 |                                                                                                                     |         |                                                        |  |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)                                                                                       |         |                                                        |  |
| Display                   |                                                                                                                     |         |                                                        |  |
| Display type              | 21.5" TFT-LCD                                                                                                       |         | 32" TFT-LCD                                            |  |
| Max. resolution           | 1920 x 1080                                                                                                         |         | 1920 x 1080                                            |  |
| Max. color                | 16.7M                                                                                                               |         | 16.7M                                                  |  |
| Luminance(cd/m²)          | 250                                                                                                                 | 1000    | 500                                                    |  |
| View angle(H°/V°)         | 178/178                                                                                                             | 178/178 | 178/178                                                |  |
| Backlight lifetime(hrs)   | 50000                                                                                                               | 50000   | 50000                                                  |  |
| Touch Screen              |                                                                                                                     |         |                                                        |  |
| Type                      | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                                                 |         | Projected Capacitive                                   |  |
| Interface                 | USB                                                                                                                 |         |                                                        |  |
| Light transmission(%)     | Resistive touch window : 80%<br>Projected Capacitive Touch : 90%                                                    |         | 90%                                                    |  |
| Power                     |                                                                                                                     |         |                                                        |  |
| Power input               | DC 9~36V                                                                                                            |         |                                                        |  |
| Power Consumption (TYP.)  | 54W                                                                                                                 |         | 80W                                                    |  |
| Mechanical                |                                                                                                                     |         |                                                        |  |
| Construction              | Aluminum Die-casting Front Bezel and Chassis                                                                        |         |                                                        |  |
| IP rating                 | Aluminum die-casting Chassis                                                                                        |         |                                                        |  |
| Mounting                  | Panel Mount , VESA 100x100                                                                                          |         | Panel Mount , VESA 200x200                             |  |
| Dimension(mm)             | 557 x 362 x 64.8                                                                                                    |         | 810 x 490 x 65                                         |  |
| Net weight(Kg)            | 7.5                                                                                                                 |         | 17.4                                                   |  |
| Environment               |                                                                                                                     |         |                                                        |  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                               |         | 0 ~ 50                                                 |  |
| Storage temperature(°C)   | -30~70                                                                                                              |         |                                                        |  |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                 |         |                                                        |  |
| Certification             | CE/FCC Class A/UL                                                                                                   |         |                                                        |  |
| Operating System Support  |                                                                                                                     |         |                                                        |  |
| Windows 10 IoT            |                                                                                                                     |         |                                                        |  |

ARCHMI-912AR/P/G/H



unit:mm

ARCHMI-915AR/P/G/H



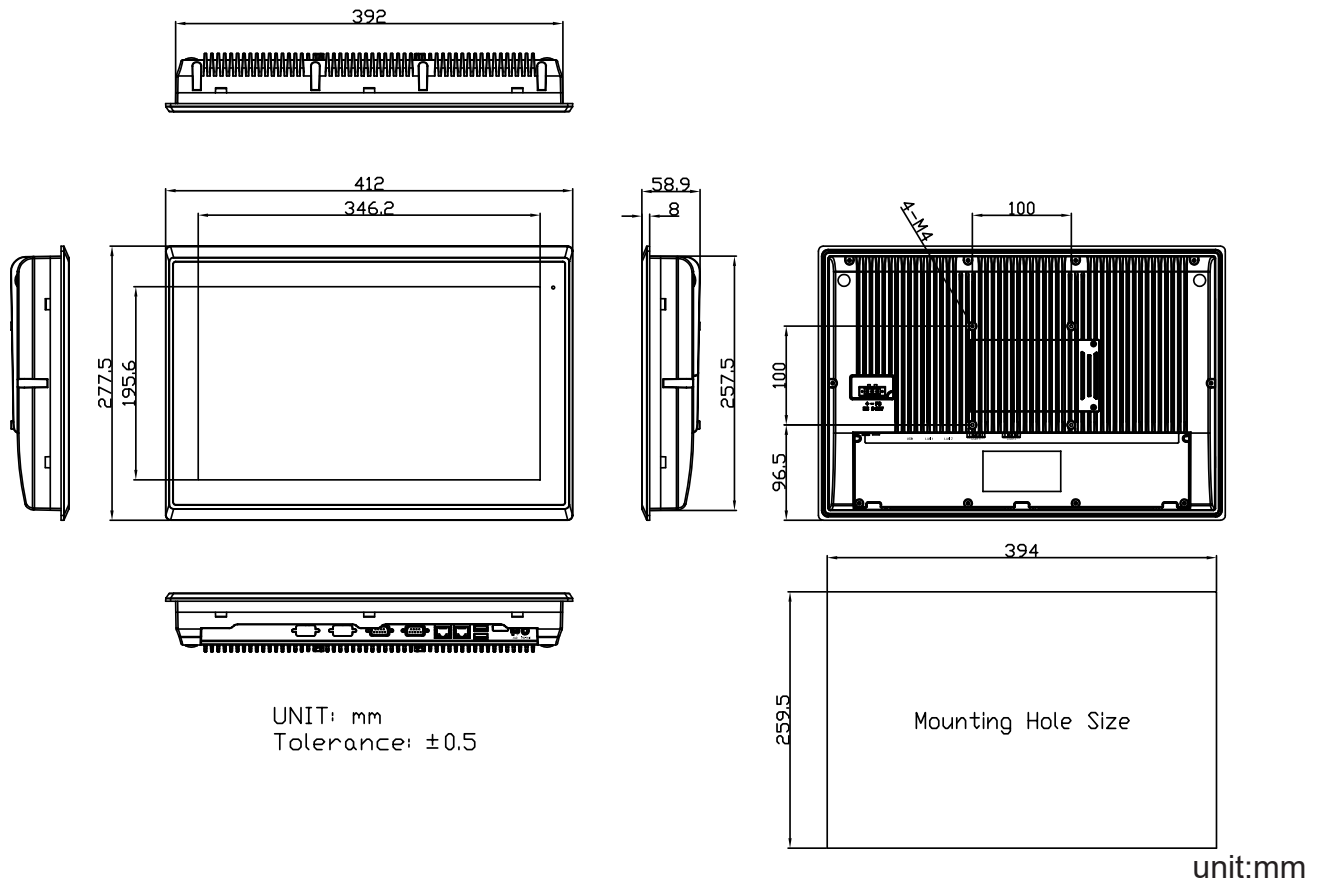
unit:mm



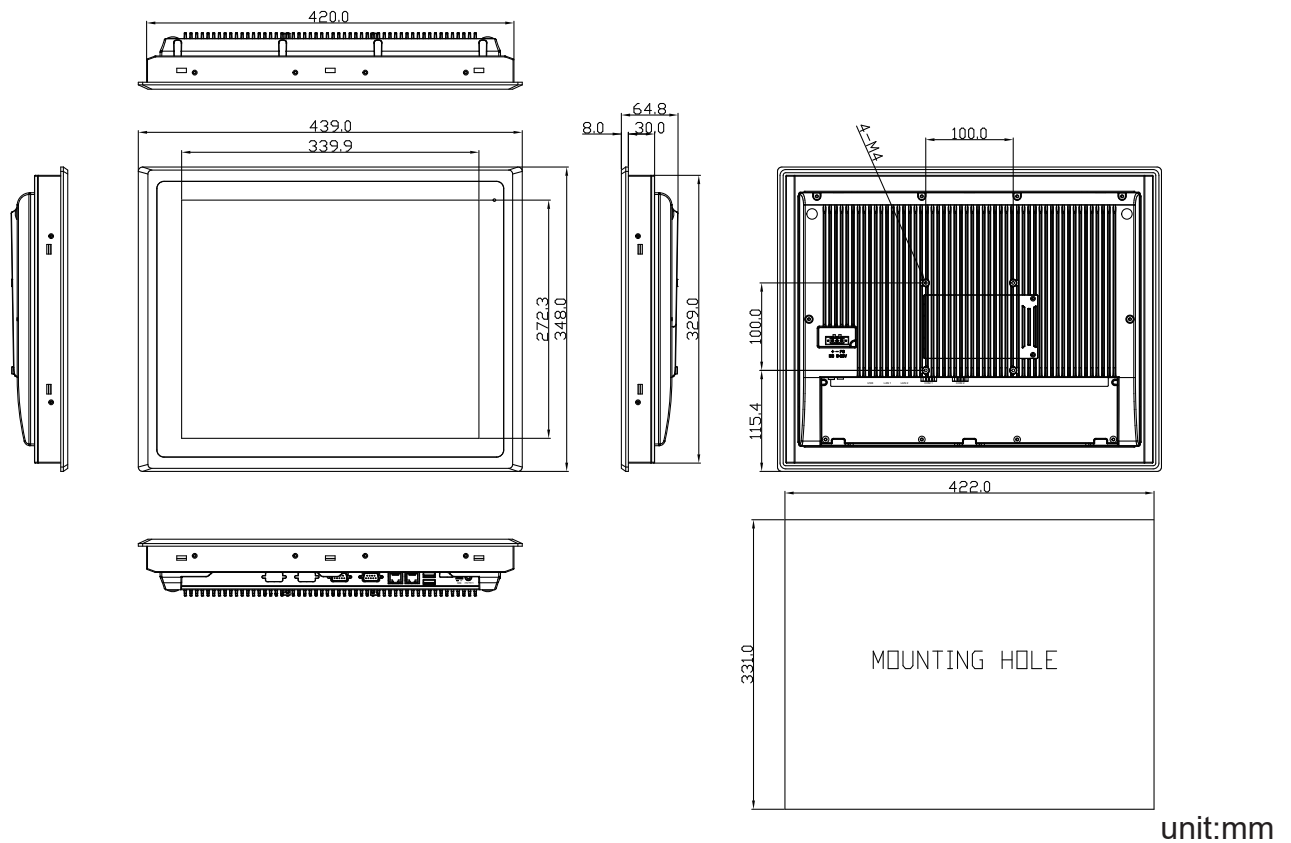
## ARCHMI-9XXA Series

Performance Grade HMI

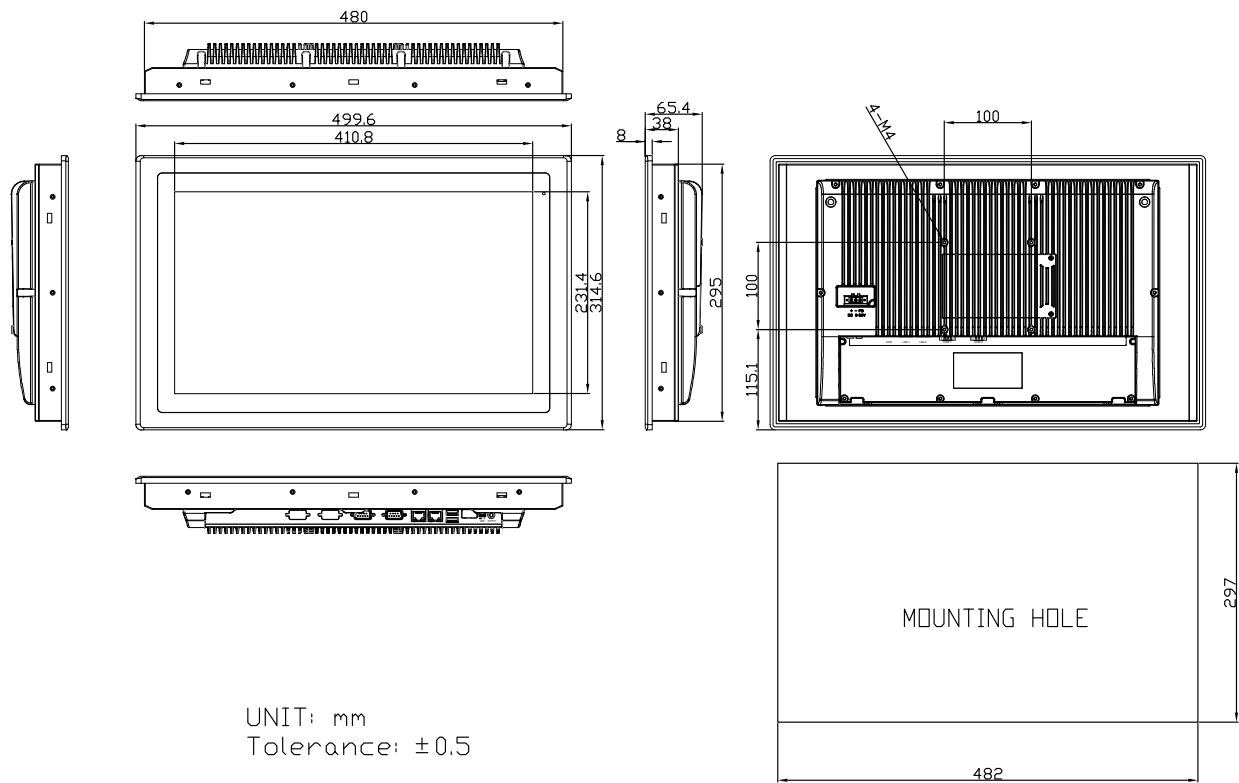
### ARCHMI-916AR/P/G/H



### ARCHMI-917AR/P/G/H

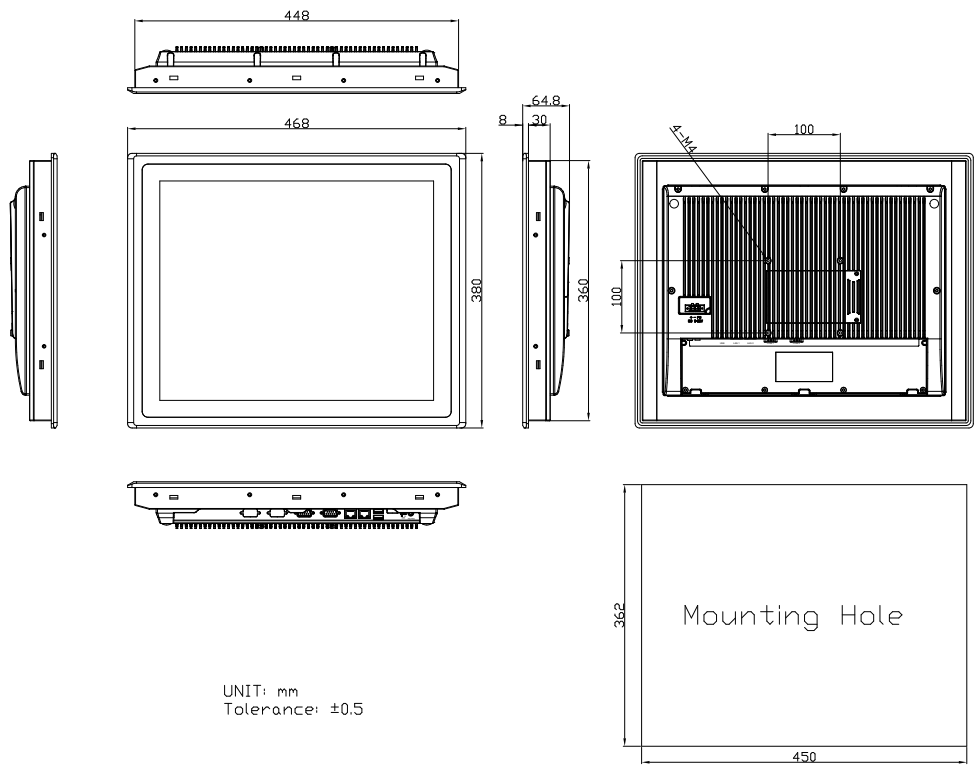


ARCHMI-918AR/P/G/H



unit:mm

ARCHMI-919AR/P/G/H

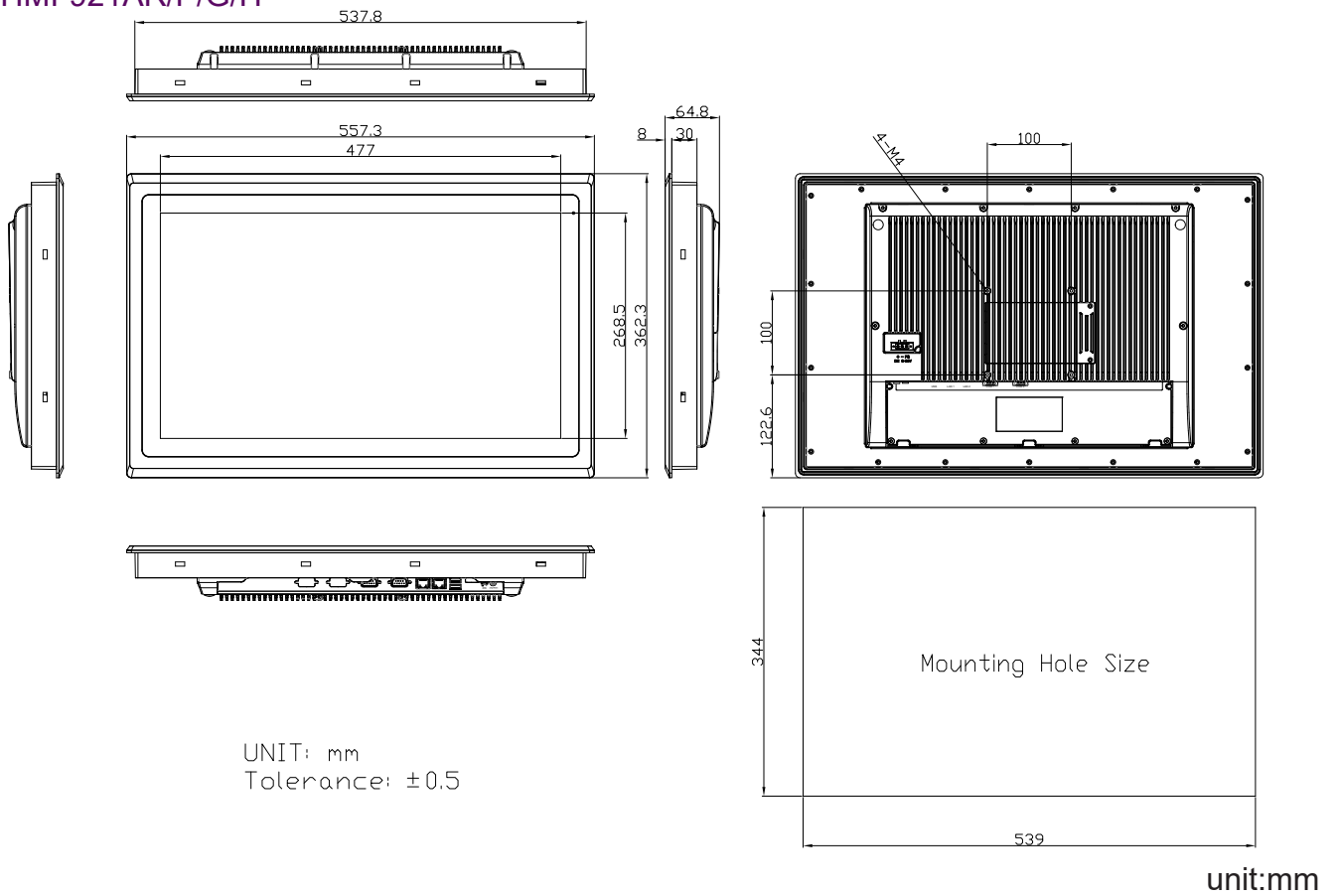


unit:mm

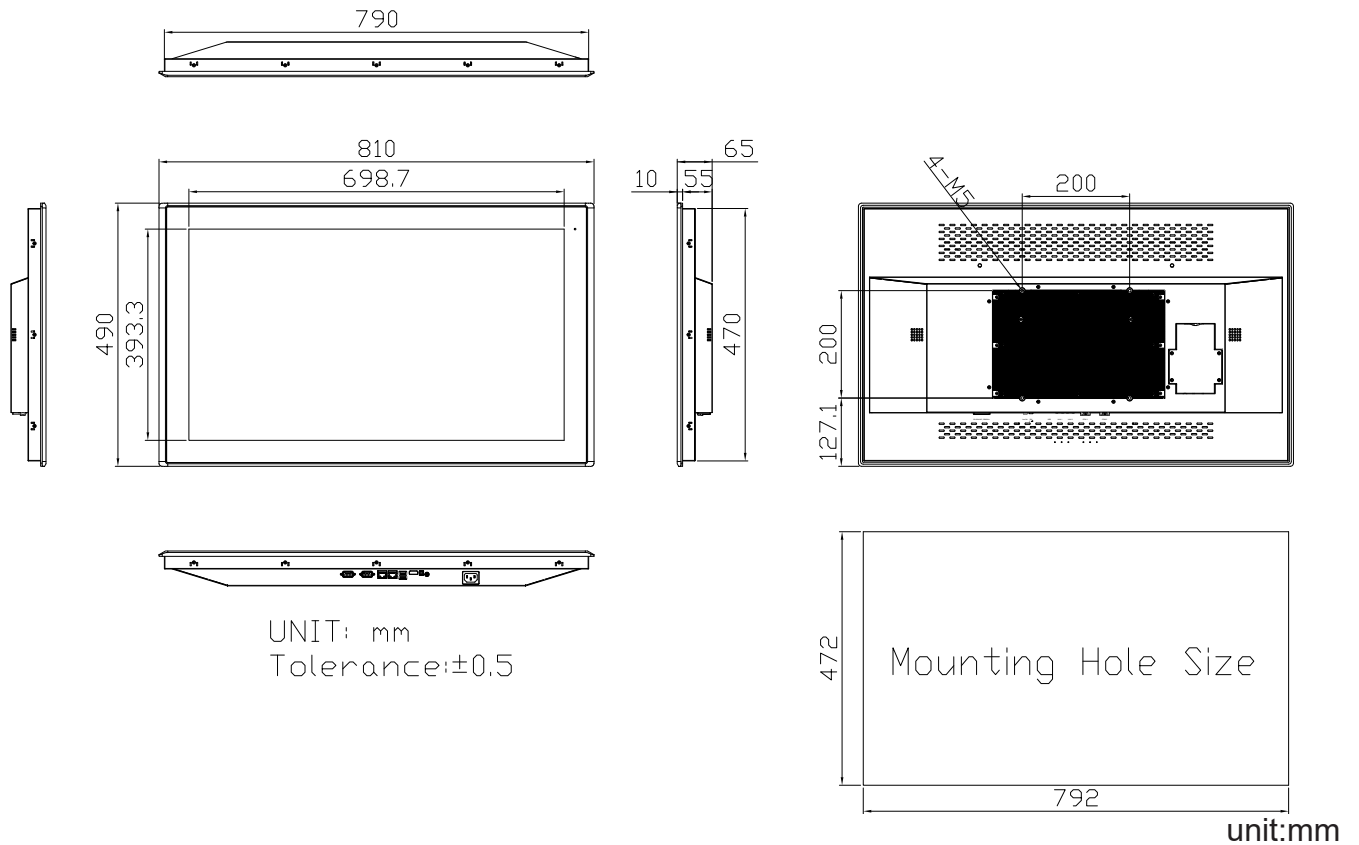
## ARCHMI-9XXA Series

Performance Grade HMI

### ARCHMI-921AR/P/G/H



### ARCHMI-932AP



## Ordering information

| Model NO.           | Description                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCHMI-912A</b>  | 12.1" SVGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis             |
| <b>ARCHMI-912AP</b> | 12.1" SVGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.  |
| <b>ARCHMI-915A</b>  | 15" XGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.               |
| <b>ARCHMI-915AP</b> | 15" XGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.    |
| <b>ARCHMI-916A</b>  | 15.6" WXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen.. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.           |
| <b>ARCHMI-916AP</b> | 15.6" WXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis. |
| <b>ARCHMI-917A</b>  | 17" SXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.              |
| <b>ARCHMI-917AP</b> | 17" SXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis.   |
| <b>ARCHMI-918A</b>  | 18.5" WXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.            |
| <b>ARCHMI-918AP</b> | 18.5" WXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.        |
| <b>ARCHMI-919A</b>  | 19" SXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.              |
| <b>ARCHMI-919AP</b> | 19" SXGA fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.          |
| <b>ARCHMI-921A</b>  | 21.5" FHD fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100 CPU, 4GB DDR4 RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.             |
| <b>ARCHMI-921AP</b> | 21.5" FHD fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100U CPU, 4GB DDR4 RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.        |
| <b>ARCHMI-932AP</b> | 32" FHD fanless HMI barebone with Intel 6 <sup>th</sup> Gen. Core i3-6100U CPU, 4GB DDR4 RAM, Projected Capacitive touch, AC 90~264V input, Aluminum chassis.                    |



# ARCHMI-8XXA Series

Fanless Industrial Compact Size HMI

Innovating Fast, Baytrail Solution

- Intel Pentium N4200 / Celeron N3350 Processor
- Onboard 4GB/8GB(option) DDR3L
- Aluminum Die-Casting Chassis
- Fanless Design
- Easily Accessible Storage Design
- Flat Front Panel Design Meets IP66
- High brightness 1,000 nits



Intel Pentium N4200  
/ Celeron N3350  
Processor



Onboard 4GB DDR3L  
Memory /8GB(option)



Flat Front Panel Design  
Meets IP66 Standard



Aluminum Die-Casting  
Chassis and Fanless  
Design



Easily Accessible  
Storage Design







| Model Name                | ARCHMI-807ARP(H) |                                                                                           |  | ARCHMI-808ARP(H) |                  |                              | ARCHMI-810ARP(H) |                              |       | ARCHMI-812ARP(H) |                  |       |          |     |       |      |       |     |       |      |  |
|---------------------------|------------------|-------------------------------------------------------------------------------------------|--|------------------|------------------|------------------------------|------------------|------------------------------|-------|------------------|------------------|-------|----------|-----|-------|------|-------|-----|-------|------|--|
| System                    |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Processor                 |                  | Intel Pentium N4200 Processor(2M Cache,1.1GHz) / Celeron N3350 Processor(2M Cache,1.1GHz) |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| System Chipset            |                  | SoC                                                                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| System Memory             |                  | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                               |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| External I/O              |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| USB                       |                  | 2 x USB 3.0 type A                                                                        |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Serial/Parallel           |                  | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                     |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| LAN                       |                  | 2 x GbE RJ-45                                                                             |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Audio                     |                  | 1 x Line-out                                                                              |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Power connector           |                  | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                    |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Storage Space             |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| HDD                       |                  | 1 x MO-297 SSD space                                                                      |  |                  |                  | 1 x 2.5" SATA3 HDD/SSD space |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Movable device            |                  | 1 x Micro SD slot                                                                         |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Expansion                 |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Onboard expansion bus     |                  | 1 x mini-PCIe slot(full size)<br>1 x Micro SIM slot                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Display                   |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Display type              |                  | 7" TFT-LCD                                                                                |  |                  | 8" TFT-LCD       |                              |                  | 10.1" TFT-LCD                |       |                  | 12.1" TFT-LCD    |       |          |     |       |      |       |     |       |      |  |
| Max. resolution           |                  | 800 x 480                                                                                 |  |                  | 800 x 600        |                              |                  | 1280 x 800                   |       |                  | 800 x 600        |       | 1024x768 |     |       |      |       |     |       |      |  |
| Max. color                |                  | 262K                                                                                      |  |                  | 16.2M            |                              |                  | 16.7M                        |       | 16.2M            |                  | 16.2M |          |     |       |      |       |     |       |      |  |
| Luminance(cd/m²)          |                  | 350                                                                                       |  | 1000             |                  | 450                          |                  | 1000                         |       | 350              |                  | 1000  |          | 450 |       | 1000 |       | 500 |       | 1200 |  |
| View angle(H°/V°)         |                  | 160/160                                                                                   |  |                  | 140/130          |                              |                  | 170/170                      |       |                  | 178/178          |       |          |     |       |      |       |     |       |      |  |
| Backlight lifetime(hrs)   |                  | 40000                                                                                     |  |                  | 40000            |                              | 20000            |                              | 30000 |                  | 50000            |       | 50000    |     | 50000 |      | 30000 |     | 70000 |      |  |
| Touch Screen              |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Type                      |                  | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Interface                 |                  | USB                                                                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Light transmission(%)     |                  | Resistive Touch : 80%<br>Projected Capacitive : 90%                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Power                     |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Power input               |                  | DC 9~36V                                                                                  |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Power Consumption (TYP.)  |                  | 28                                                                                        |  |                  | 28               |                              |                  | 27                           |       |                  | 29               |       |          |     |       |      |       |     |       |      |  |
| Mechanical                |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Construction              |                  | Aluminum die-casting Chassis                                                              |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| IP rating                 |                  | IP66 Compliant Front Bezel                                                                |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Mounting                  |                  | Panel Mount , VESA 75 x 75                                                                |  |                  |                  |                              |                  | Panel Mount , VESA 100 x 100 |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Dimension(mm)             |                  | 202 x 149 x 40                                                                            |  |                  | 231 x 176.1 x 50 |                              |                  | 285 x 189 x 48.9             |       |                  | 319 x 245 x 51.7 |       |          |     |       |      |       |     |       |      |  |
| Net weight(Kg)            |                  | 2.8                                                                                       |  |                  | 1.9              |                              |                  | 2                            |       |                  | 2.8              |       |          |     |       |      |       |     |       |      |  |
| Environment               |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Operating temperature(°C) |                  | 0~50/-20~60(option)                                                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Storage temperature(°C)   |                  | -30~70                                                                                    |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Humidity                  |                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                       |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Certification             |                  | CE/FCC Class A/UL                                                                         |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Operating System Support  |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |
| Windows 10 IoT            |                  |                                                                                           |  |                  |                  |                              |                  |                              |       |                  |                  |       |          |     |       |      |       |     |       |      |  |

# ARCHMI-8XXA Series

Innovating Fast, Apollo Lake Solution



| Model Name                | ARCHMI-812WAPR(H)                                                                         | ARCHMI-815ARP(H) | ARCHMI-816ARP(H)  | ARCHMI-817ARP(H) |                      |  |                  |  |                      |  |
|---------------------------|-------------------------------------------------------------------------------------------|------------------|-------------------|------------------|----------------------|--|------------------|--|----------------------|--|
| System                    |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Processor                 | Intel Pentium N4200 Processor(2M Cache,1.1GHz) / Celeron N3350 Processor(2M Cache,1.1GHz) |                  |                   |                  |                      |  |                  |  |                      |  |
| System Chipset            | SoC                                                                                       |                  |                   |                  |                      |  |                  |  |                      |  |
| System Memory             | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                               |                  |                   |                  |                      |  |                  |  |                      |  |
| External I/O              |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| USB                       | 2 x USB 3.0 type A                                                                        |                  |                   |                  |                      |  |                  |  |                      |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                     |                  |                   |                  |                      |  |                  |  |                      |  |
| LAN                       | 2 x GbE RJ-45                                                                             |                  |                   |                  |                      |  |                  |  |                      |  |
| Audio                     | 1 x Line-out                                                                              |                  |                   |                  |                      |  |                  |  |                      |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                    |                  |                   |                  |                      |  |                  |  |                      |  |
| Storage Space             |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| HDD                       | 1 x 2.5" SATA3 HDD/SSD space                                                              |                  |                   |                  |                      |  |                  |  |                      |  |
| Movable device            | 1 x Micro SD slot                                                                         |                  |                   |                  |                      |  |                  |  |                      |  |
| Expansion                 |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)<br>1 x Micro SIM slot                                       |                  |                   |                  |                      |  |                  |  |                      |  |
|                           |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Display type              | 12.1" wide TFT-LCD                                                                        |                  | 15" TFT-LCD       |                  | 15.6" TFT-LCD        |  | 17" TFT-LCD      |  |                      |  |
| Max. resolution           | 1280 x 800                                                                                |                  | 1024 x 768        |                  | 1366 x 768           |  | 1920 x 1080      |  | 1280 x 1024          |  |
| Max. color                | 16.7M                                                                                     |                  | 16.2M             |                  | 16.7M                |  | 16.7M            |  | 16.2M                |  |
| Luminance(cd/m²)          | 600      1000                                                                             |                  | 300      1000     |                  | 400      1000        |  | 450      1000    |  | 300      1000        |  |
| View angle(H°/V°)         | 170/170      176/176                                                                      |                  | 176/176           |                  | 170/160      160/160 |  | 170/170          |  | 170/160      140/140 |  |
| Backlight lifetime(hrs)   | 50000                                                                                     |                  | 70000             |                  | 50000                |  | 30000            |  | 50000                |  |
| Touch Screen              |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Type                      | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                       |                  |                   |                  |                      |  |                  |  |                      |  |
| Interface                 | USB                                                                                       |                  |                   |                  |                      |  |                  |  |                      |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                       |                  |                   |                  |                      |  |                  |  |                      |  |
| Power                     |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Power input               | DC 9~36V                                                                                  |                  |                   |                  |                      |  |                  |  |                      |  |
| Power Consumption (TYP.)  | 35                                                                                        |                  | 32                |                  | 30                   |  | 41               |  |                      |  |
| Mechanical                |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Construction              | Aluminum die-casting Chassis                                                              |                  |                   |                  |                      |  |                  |  |                      |  |
| IP rating                 | IP66 Compliant Front Bezel                                                                |                  |                   |                  |                      |  |                  |  |                      |  |
| Mounting                  | Panel Mount, VESA 100 x 100                                                               |                  |                   |                  |                      |  |                  |  |                      |  |
| Dimension(mm)             | 328 x 227 x 57.6                                                                          |                  | 410 x 310 x 54.67 |                  | 412 x 277.5 x 58.9   |  | 439 x 348 x 64.8 |  |                      |  |
| Net weight(Kg)            | 3.1                                                                                       |                  | 4.6               |                  | 4.8                  |  | 5.1              |  |                      |  |
| Environment               |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Operating temperature(°C) | 0~50/-20~60(option)                                                                       |                  |                   |                  |                      |  |                  |  |                      |  |
| Storage temperature(°C)   | -30~70                                                                                    |                  |                   |                  |                      |  |                  |  |                      |  |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                       |                  |                   |                  |                      |  |                  |  |                      |  |
| Certification             | CE/FCC Class A/UL                                                                         |                  |                   |                  |                      |  |                  |  |                      |  |
| Operating System Support  |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |
| Windows 10 IoT            |                                                                                           |                  |                   |                  |                      |  |                  |  |                      |  |

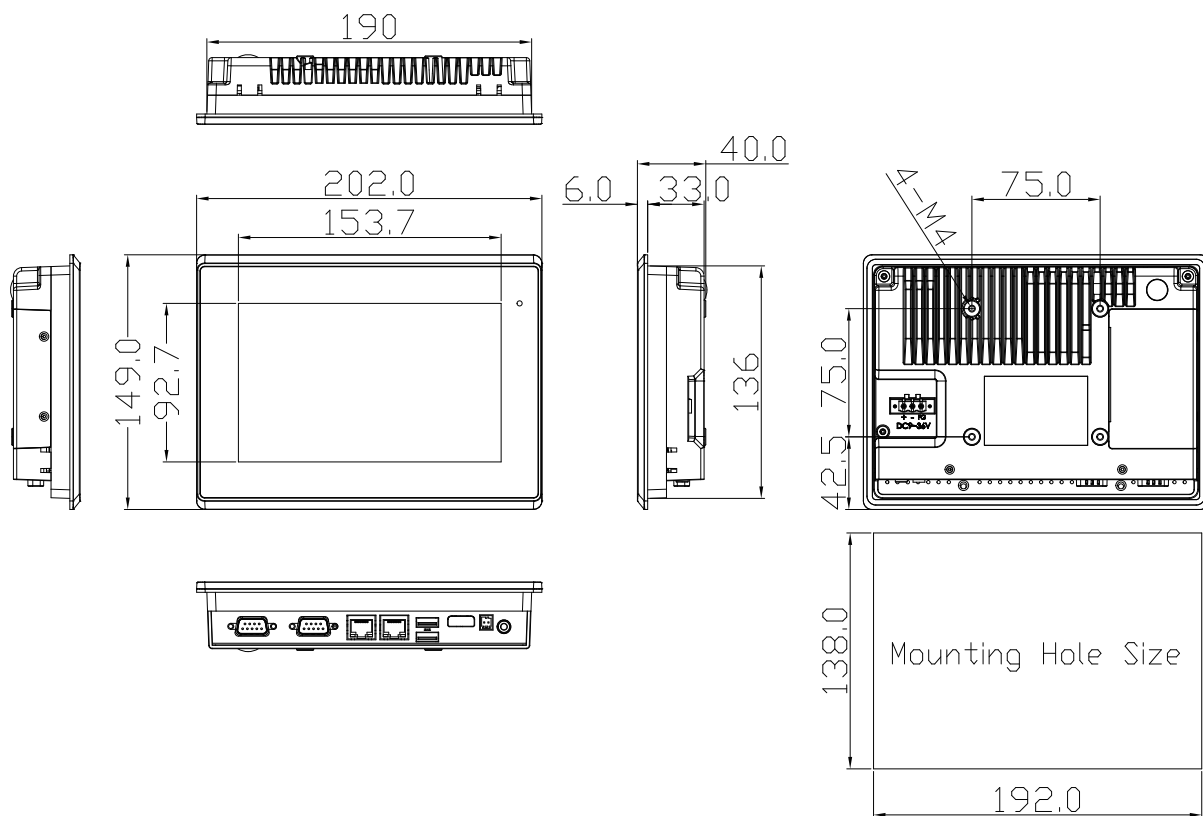


| Model Name                | ARCHMI-818ARP(H)                                                                          |      |             |      | ARCHMI-819ARP(H) |  |      |  | ARCHMI-821ARP(H)     |  |      |  |
|---------------------------|-------------------------------------------------------------------------------------------|------|-------------|------|------------------|--|------|--|----------------------|--|------|--|
| System                    |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Processor                 | Intel Pentium N4200 Processor(2M Cache,1.1GHz) / Celeron N3350 Processor(2M Cache,1.1GHz) |      |             |      |                  |  |      |  |                      |  |      |  |
| System Chipset            | SoC                                                                                       |      |             |      |                  |  |      |  |                      |  |      |  |
| System Memory             | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                               |      |             |      |                  |  |      |  |                      |  |      |  |
| External I/O              |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| USB                       | 2 x USB 3.0 type A                                                                        |      |             |      |                  |  |      |  |                      |  |      |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                     |      |             |      |                  |  |      |  |                      |  |      |  |
| LAN                       | 2 x GbE RJ-45                                                                             |      |             |      |                  |  |      |  |                      |  |      |  |
| Audio                     | 1 x Line-out                                                                              |      |             |      |                  |  |      |  |                      |  |      |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                    |      |             |      |                  |  |      |  |                      |  |      |  |
| Storage Space             |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| HDD                       | 1 x 2.5" SATA3 HDD/SSD space                                                              |      |             |      |                  |  |      |  |                      |  |      |  |
| Movable device            | 1 x Micro SD slot                                                                         |      |             |      |                  |  |      |  |                      |  |      |  |
| Expansion                 |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Onboard expansion bus     | 1 x mini-PCle slot(full size)<br>1 x Micro SIM slot                                       |      |             |      |                  |  |      |  |                      |  |      |  |
|                           |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Display type              | 18.5" TFT-LCD                                                                             |      |             |      | 19" TFT-LCD      |  |      |  | 21.5" TFT-LCD        |  |      |  |
| Max. resolution           | 1366 x 768                                                                                |      | 1920 x 1080 |      | 1280 x 1024      |  |      |  | 1920 x 1080          |  |      |  |
| Max. color                | 16.7M                                                                                     |      |             |      | 16.7M            |  |      |  | 16.7M                |  |      |  |
| Luminance(cd/m²)          | 300                                                                                       | 1000 | 350         | 1000 | 350              |  | 1000 |  | 250                  |  | 1000 |  |
| View angle(H°/V°)         | 170/160                                                                                   |      | 178/178     |      | 170/160          |  |      |  | 178/178              |  |      |  |
| Backlight lifetime(hrs)   | 50000                                                                                     |      | 40000       |      | 50000            |  |      |  | 50000                |  |      |  |
| Touch Screen              |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Type                      | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)                       |      |             |      |                  |  |      |  |                      |  |      |  |
| Interface                 | USB                                                                                       |      |             |      |                  |  |      |  |                      |  |      |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                       |      |             |      |                  |  |      |  |                      |  |      |  |
| Power                     |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Power input               | DC 9~36V                                                                                  |      |             |      |                  |  |      |  |                      |  |      |  |
| Power Consumption (TYP.)  | 34                                                                                        |      |             |      | 42               |  |      |  | 44                   |  |      |  |
| Mechanical                |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Construction              | Aluminum die-casting Chassis                                                              |      |             |      |                  |  |      |  |                      |  |      |  |
| IP rating                 | IP66 Compliant Front Bezel                                                                |      |             |      |                  |  |      |  |                      |  |      |  |
| Mounting                  | Panel Mount , VESA 100 x 100                                                              |      |             |      |                  |  |      |  |                      |  |      |  |
| Dimension(mm)             | 499.6 x 314.6 x 65.4                                                                      |      |             |      | 468 x 380 x 64.8 |  |      |  | 557.3 x 362.3 x 64.8 |  |      |  |
| Net weight(Kg)            | 6                                                                                         |      |             |      | 7.3              |  |      |  | 7.5                  |  |      |  |
| Environment               |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                     |      |             |      |                  |  |      |  | 0 ~ 50               |  |      |  |
| Storage temperature(°C)   | -30~70                                                                                    |      |             |      |                  |  |      |  |                      |  |      |  |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                       |      |             |      |                  |  |      |  |                      |  |      |  |
| Certification             | CE/FCC Class A/UL                                                                         |      |             |      |                  |  |      |  |                      |  |      |  |
| Operating System Support  |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |
| Windows 10 IoT            |                                                                                           |      |             |      |                  |  |      |  |                      |  |      |  |

## ARCHMI-8XXA Series

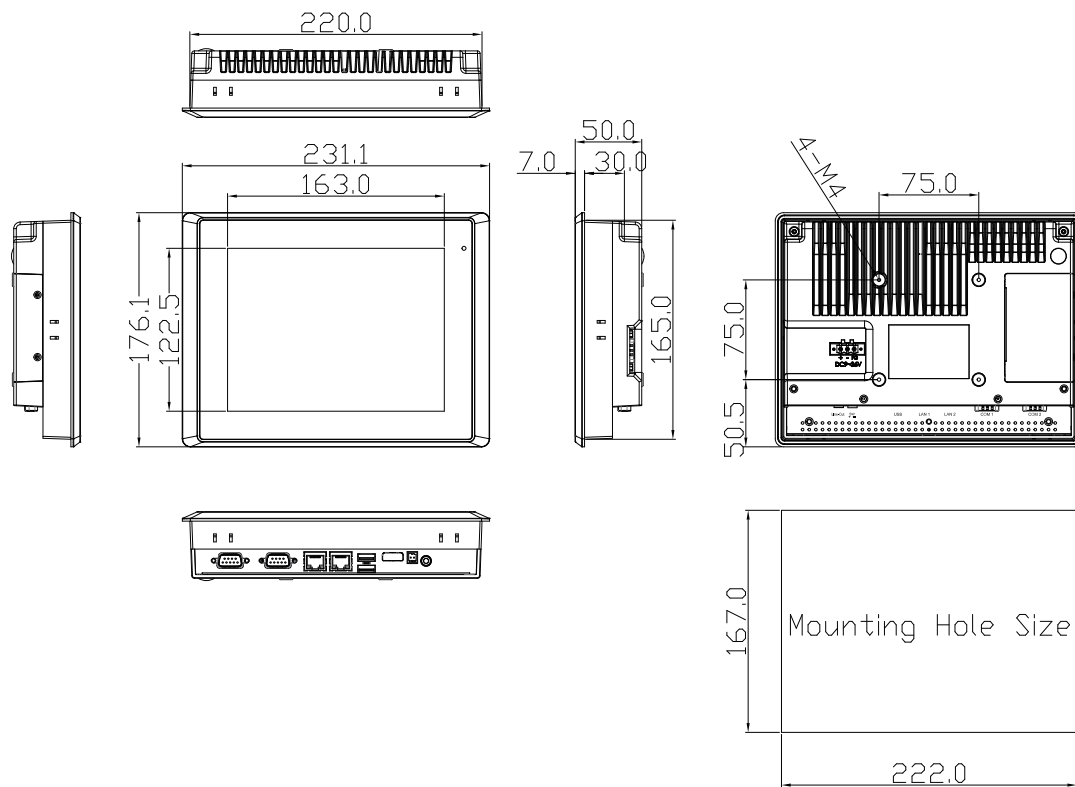
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### ARCHMI-807A/R/P/H



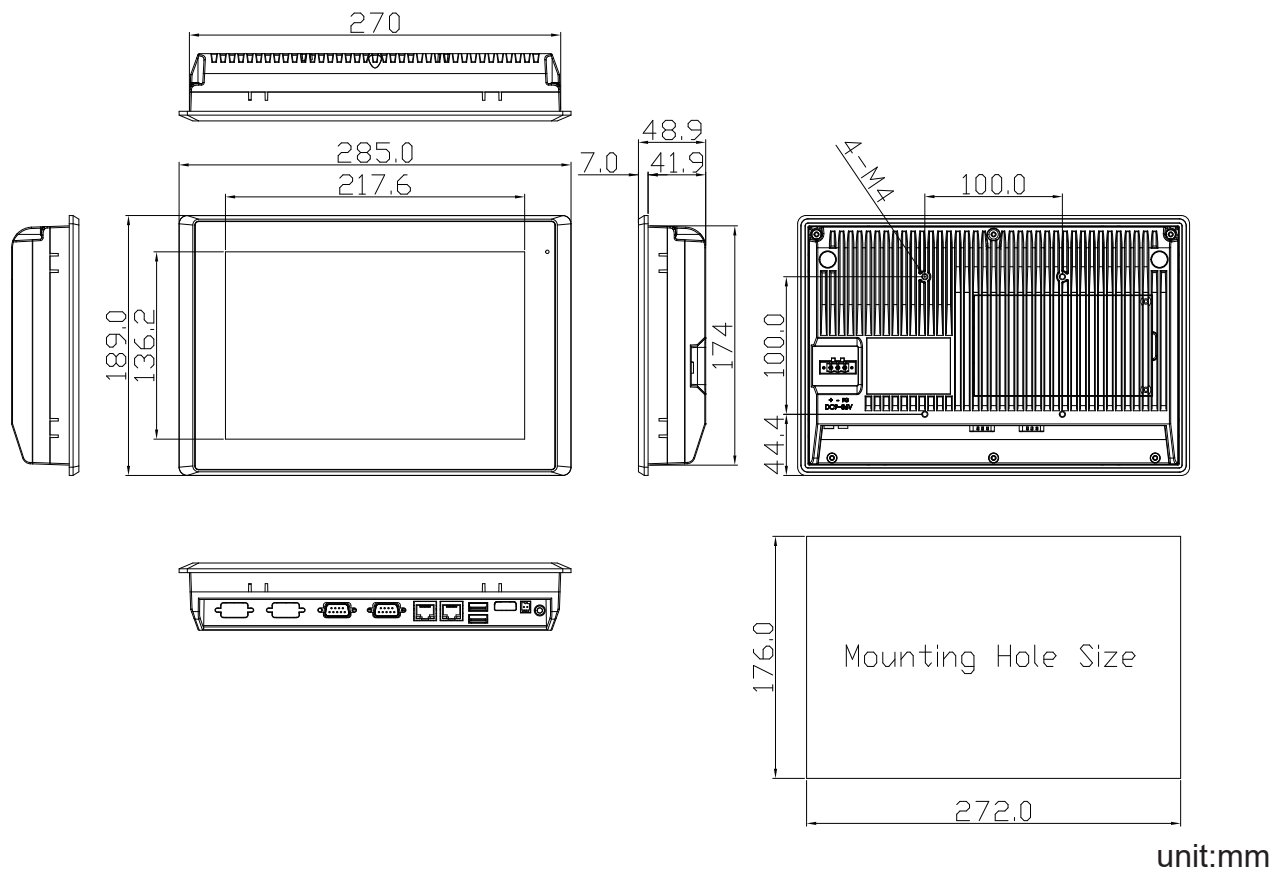
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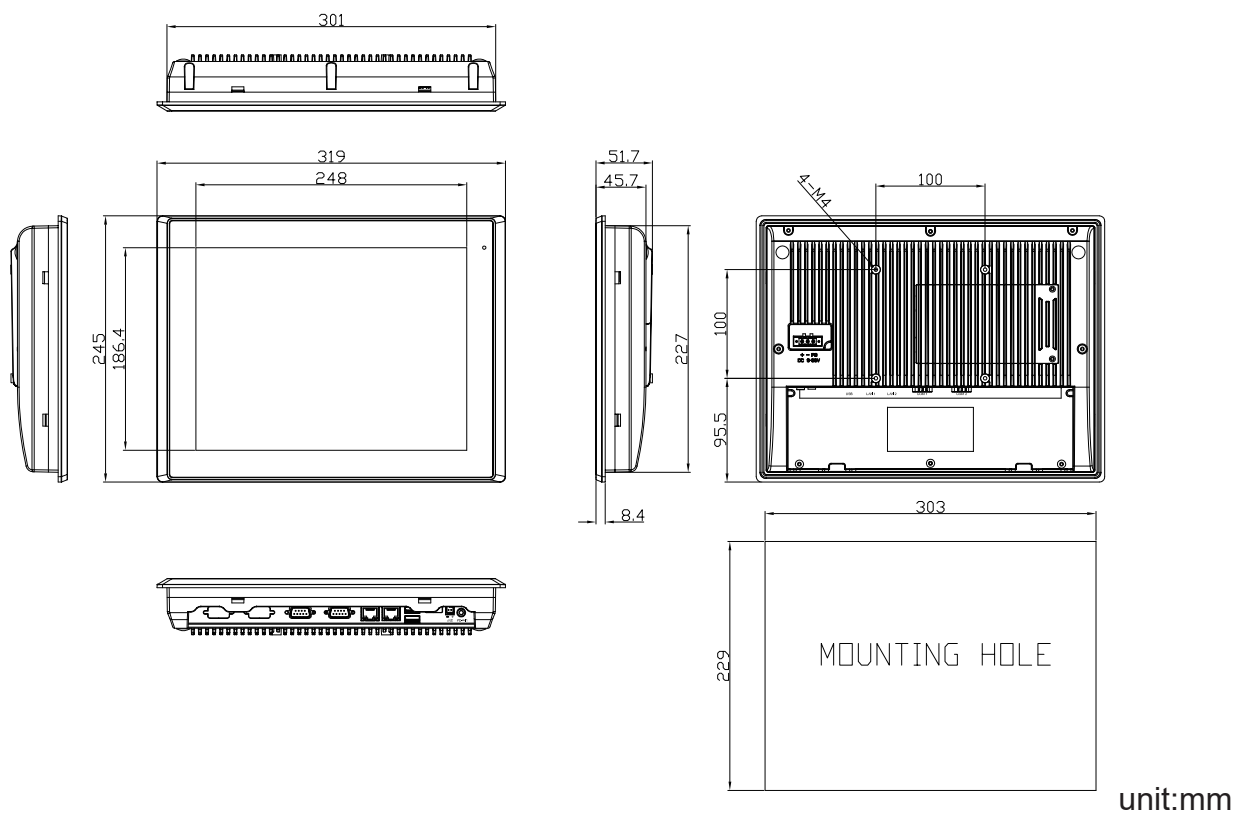


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## ARCHMI-810A/R/P/H



## ARCHMI-812A/R/P/H

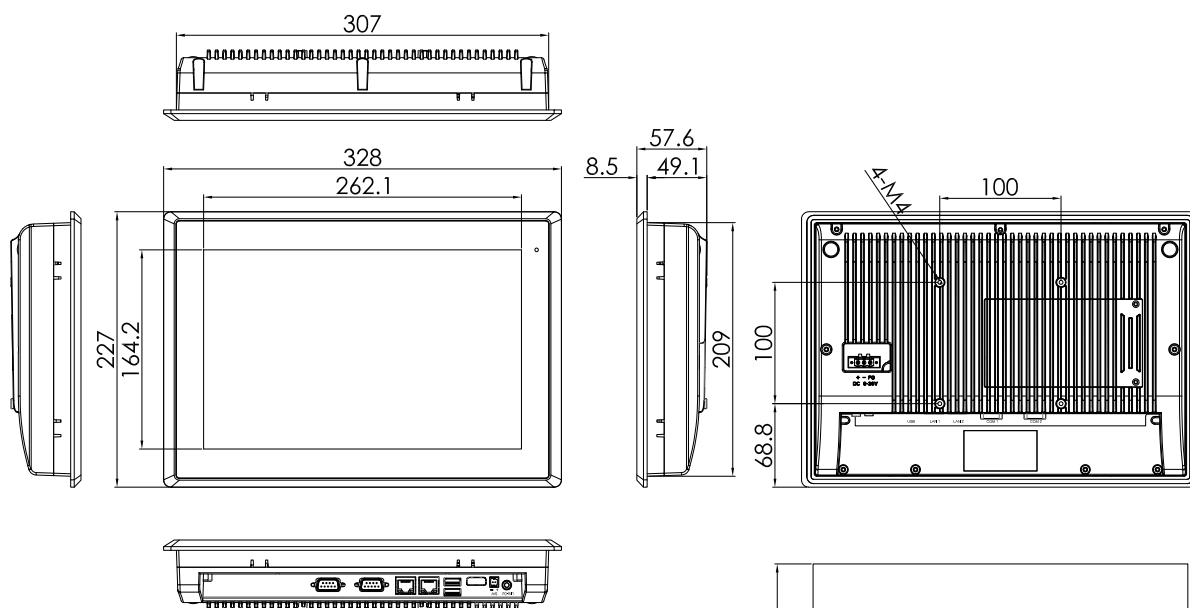




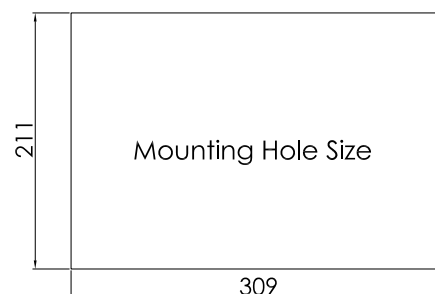
## ARCHMI-8XXA Series

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### ARCHMI-812WA/R/P/H

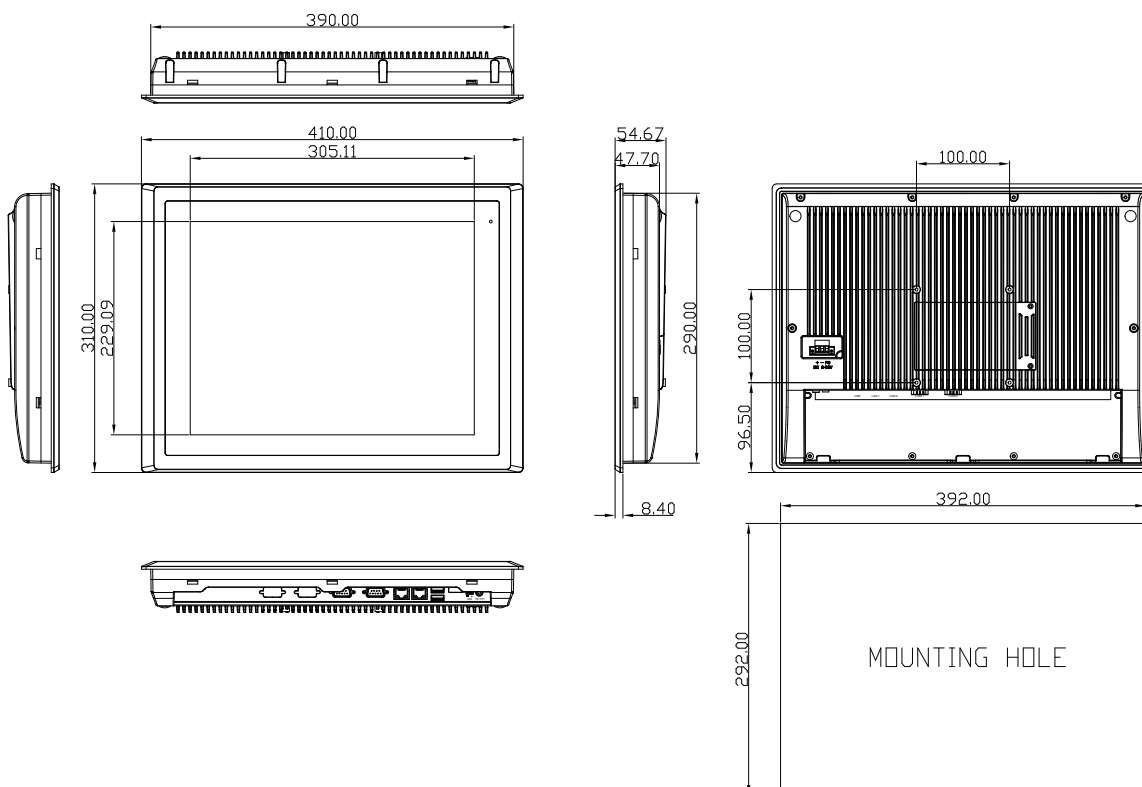


UNIT: mm  
Tolerance:  $\pm 0.5$



unit:mm

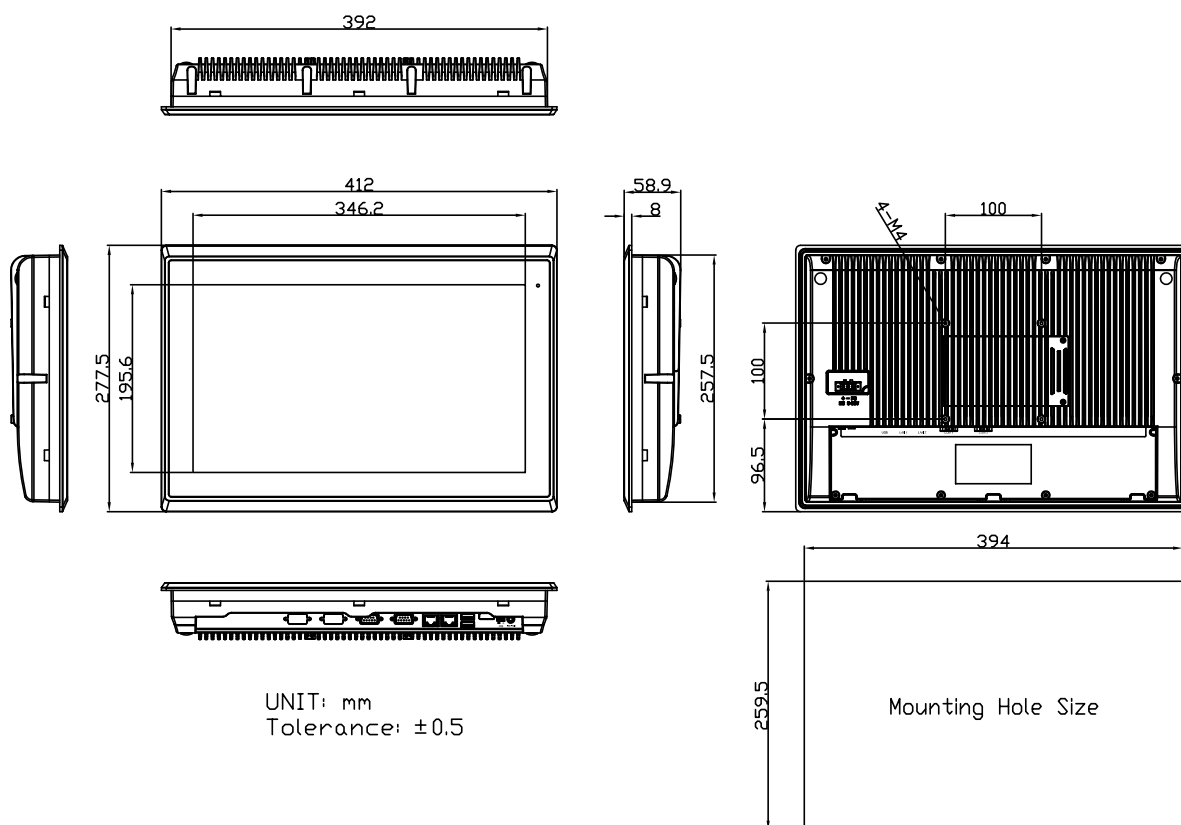
### ARCHMI-815A/R/P/H



MOUNTING HOLE

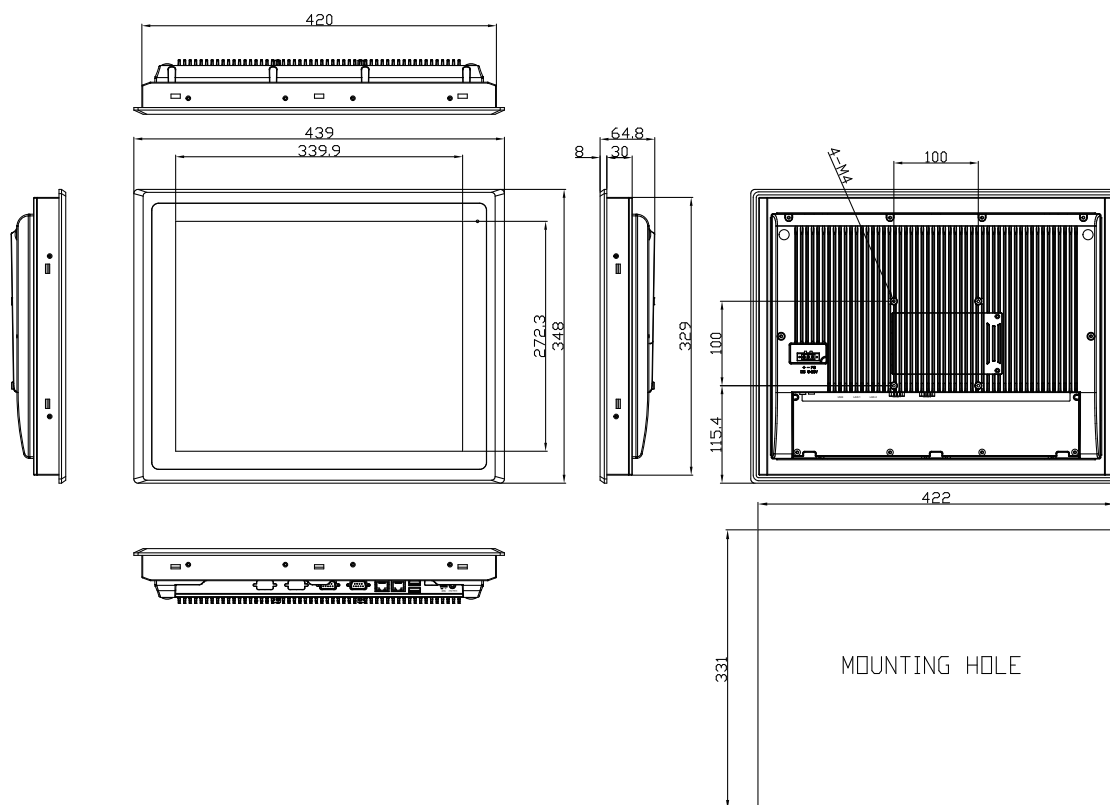
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## ARCHMI-816A/R/P/H



unit:mm

## ARCHMI-817A/R/P/H



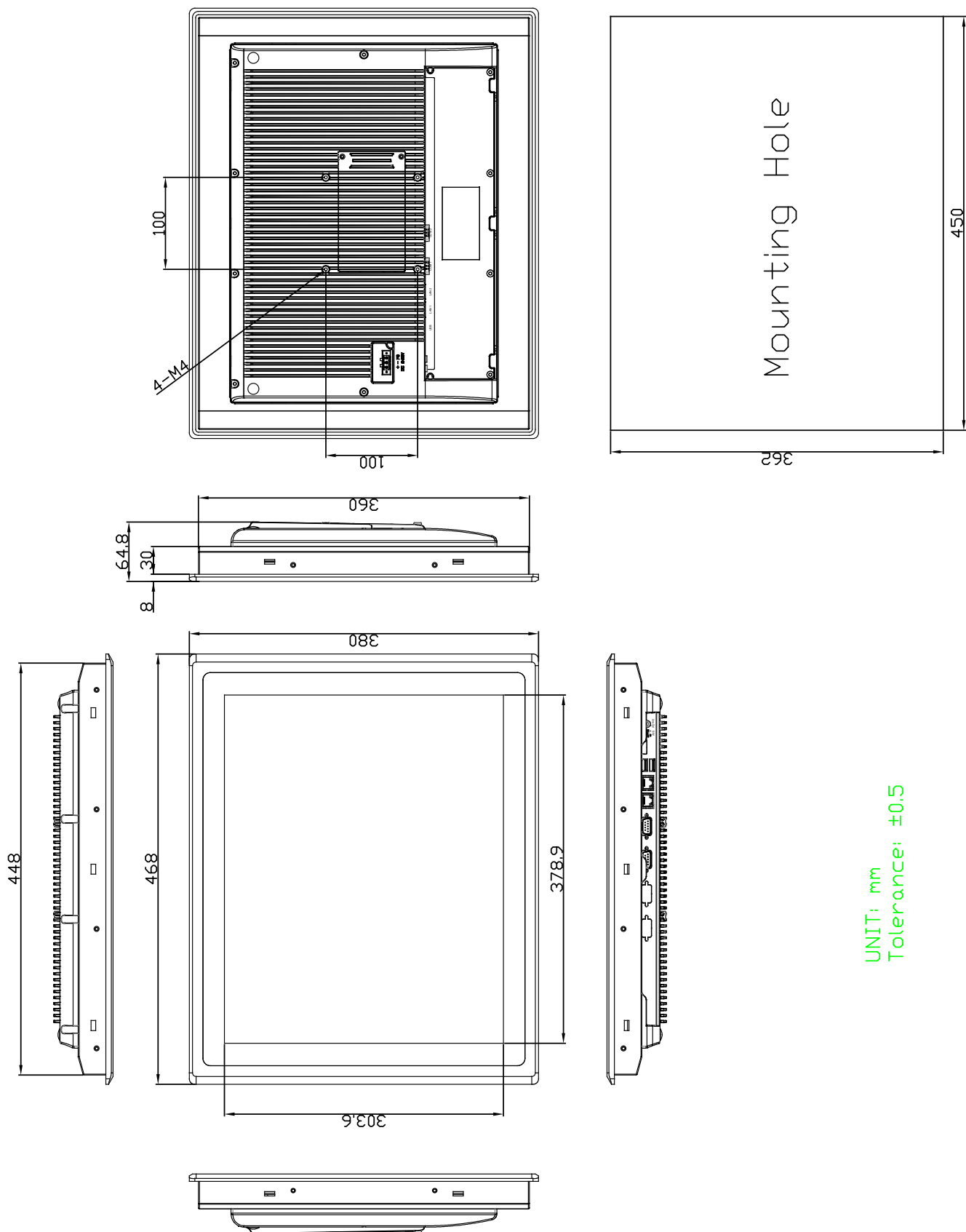
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## ARCHMI-818A/R/P/H



unit:mm

## ARCHMI-819A/R/P/H



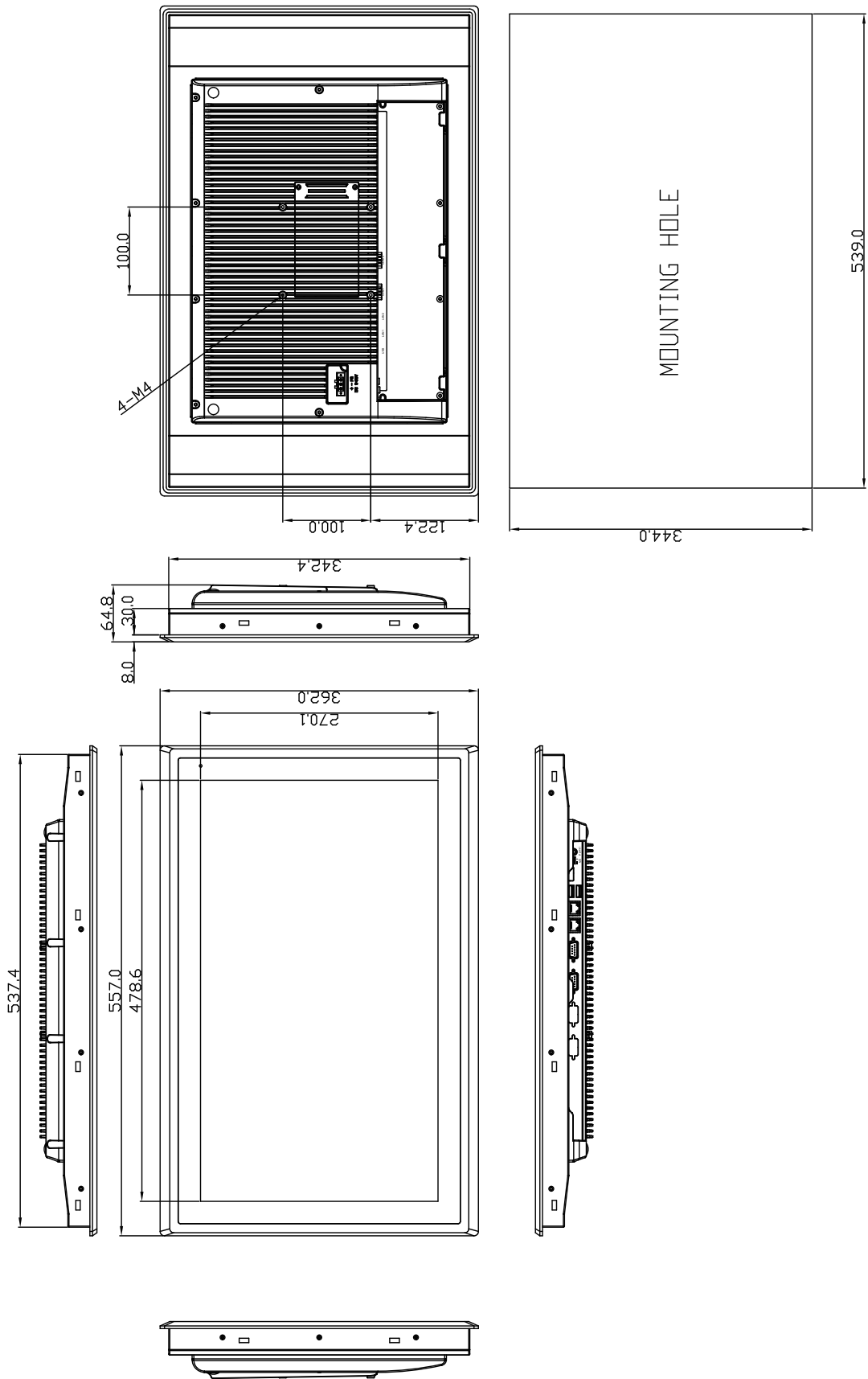
UNIT: mm  
Tolerance:  $\pm 0.5$

unit:mm

# ARCHMI-8XXA Series

Innovating Fast, Apollo Lake Solution

## ARCHMI-821A/R/P/H



unit:mm



## Ordering information

| Model NO.           | Description                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCHMI-807AR</b> | 7" WVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis        |
| <b>ARCHMI-807AP</b> | 7" WVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis    |
| <b>ARCHMI-808AR</b> | 8" SVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis        |
| <b>ARCHMI-808AP</b> | 8" SVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis    |
| <b>ARCHMI-810AR</b> | 10.1" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-810AP</b> | 10.1" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis |
| <b>ARCHMI-812AR</b> | 12.1" SVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-812AP</b> | 12.1" SVGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis |
| <b>ARCHMI-815AR</b> | 15" XGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis        |
| <b>ARCHMI-815AP</b> | 15" XGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis    |
| <b>ARCHMI-816AR</b> | 15.6" WXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-816AP</b> | 15.6" WXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis |
| <b>ARCHMI-817AR</b> | 17" SXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis       |
| <b>ARCHMI-817AP</b> | 17" SXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis   |
| <b>ARCHMI-818AR</b> | 18.5" WXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-818AP</b> | 18.5" WXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis |
| <b>ARCHMI-819AR</b> | 19" SXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis       |
| <b>ARCHMI-819AP</b> | 19" SXGA Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis   |
| <b>ARCHMI-821AR</b> | 21.5" FHD Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis      |
| <b>ARCHMI-821AP</b> | 21.5" FHD Fanless HMI barebone with Intel Pentium N4200 CPU, 2GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis  |

| Model NO.            | Description                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCHMI-807ARH</b> | 7" WVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD        |
| <b>ARCHMI-807APH</b> | 7" WVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD    |
| <b>ARCHMI-808ARH</b> | 8" SVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD        |
| <b>ARCHMI-808APH</b> | 8" SVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD    |
| <b>ARCHMI-810ARH</b> | 10.1" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD     |
| <b>ARCHMI-810APH</b> | 10.1" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD |
| <b>ARCHMI-812ARH</b> | 12.1" SVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD     |
| <b>ARCHMI-812APH</b> | 12.1" SVGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD |
| <b>ARCHMI-815ARH</b> | 15" XGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD        |
| <b>ARCHMI-815APH</b> | 15" XGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD    |
| <b>ARCHMI-816ARH</b> | 15.6" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD     |
| <b>ARCHMI-816APH</b> | 15.6" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD |
| <b>ARCHMI-817ARH</b> | 17" SXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD       |
| <b>ARCHMI-817APH</b> | 17" SXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD   |
| <b>ARCHMI-818ARH</b> | 18.5" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD     |
| <b>ARCHMI-818APH</b> | 18.5" WXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD |
| <b>ARCHMI-819ARH</b> | 19" SXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD       |
| <b>ARCHMI-819APH</b> | 19" SXGA fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD   |
| <b>ARCHMI-821ARH</b> | 21.5" FHD fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD      |
| <b>ARCHMI-821APH</b> | 21.5" FHD fanless HMI barebone with Intel Pentium N4200 CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD  |



# ARCHMI-8XX Series

Fanless Industrial Compact Size HMI

Innovating Fast, Baytrail Solution

- Intel Baytrail N2930/E3845 Processor
- Onboard 4GB DDR3L/8GB(option)
- Aluminum Die-Casting Chassis
- Fanless Design
- Easily Accessible Storage Design
- Flat Front Panel Design Meets IP66
- High brightness 1,000 nits



Intel Baytrail Atom E3845  
Celeron N2930 rocessor



Onboard 4GB DDR3L  
1600MHz/8GB(option)



Flat Front Panel Design  
Meets IP66 Standard



Aluminum Die-Casting  
Chassis and Fanless  
Design



Easily Accessible  
Storage Design





| Model Name                | ARCHMI-807(P)(H)                                                                        |      |  | ARCHMI-808(P)(H) |      |                              | ARCHMI-810(P)(H) |         |                  | ARCHMI-812(P)(H) |          |        |        |       |       |
|---------------------------|-----------------------------------------------------------------------------------------|------|--|------------------|------|------------------------------|------------------|---------|------------------|------------------|----------|--------|--------|-------|-------|
| System                    |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Processor                 | Intel Celeron N2930 Processor(2M Cache,1.83GHz)/ Atom E3845 Processor(2M Cache,1.91GHz) |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| System Chipset            | SoC                                                                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| System Memory             | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                             |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| External I/O              |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| USB                       | 2 x USB 3.0 type A                                                                      |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                   |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| LAN                       | 2 x GbE RJ-45                                                                           |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Audio                     | 1 x Line-out                                                                            |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                  |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Storage Space             |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| HDD                       | 1 x MO-297 SSD space                                                                    |      |  |                  |      | 1 x 2.5" SATA3 HDD/SSD space |                  |         |                  |                  |          |        |        |       |       |
| Movable device            | 1 x SD card slot, up to 32GB                                                            |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Expansion                 |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Onboard expansion bus     | 1 x mini-PCle slot(full size)<br>1 x Micro SIM slot                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Display                   |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Display type              | 7" TFT-LCD                                                                              |      |  | 8" TFT-LCD       |      | 10.1" TFT-LCD                |                  |         | 12.1" TFT-LCD    |                  |          |        |        |       |       |
| Max. resolution           | 800 x 480                                                                               |      |  | 800 x 600        |      | 1280 x 800                   |                  |         | 800 x 600        |                  | 1024x768 |        |        |       |       |
| Max. color                | 262K                                                                                    |      |  | 16.2M            |      | 16.7M                        |                  | 16.2M   |                  | 16.2M            |          |        |        |       |       |
| Luminance(cd/m²)          | 350                                                                                     | 1000 |  | 450              | 1000 | 350                          | 1000             | 450     | 1000             | 500              | 1000     |        |        |       |       |
| View angle(H°/V°)         | 160/160                                                                                 |      |  | 140/130          |      | 170/170                      |                  | 170/170 |                  | 178/178          |          |        |        |       |       |
| Contrast Ratio            | 1000:1                                                                                  |      |  | 500:1            |      | 800:1                        |                  | 1300:1  |                  | 1500:1           | 700:1    | 1000:1 | 1000:1 |       |       |
| Backlight lifetime(hrs)   | 40000                                                                                   |      |  | 40000            |      | 20000                        |                  | 30000   |                  | 50000            |          | 50000  | 50000  | 30000 | 70000 |
| Touch Screen              |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Type                      | Resistive Touch<br>Projected Capacitive(For P model)                                    |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Interface                 | USB                                                                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Power                     |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Power input               | DC 9~36V                                                                                |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Power Consumption (TYP.)  | 28                                                                                      |      |  | 26               |      | 28                           |                  |         | 32               |                  |          |        |        |       |       |
| Mechanical                |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Construction              | Aluminum die-casting Chassis                                                            |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| IP rating                 | IP66 Compliant Front Bezel                                                              |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Mounting                  | Panel Mount , VESA 75 x 75                                                              |      |  |                  |      | Panel Mount , VESA 100 x 100 |                  |         |                  |                  |          |        |        |       |       |
| Dimension(mm)             | 202 x 149 x 40                                                                          |      |  | 231 x 176.1 x 50 |      | 285 x 189 x 48.9             |                  |         | 319 x 245 x 51.7 |                  |          |        |        |       |       |
| Net weight(Kg)            | 1.2                                                                                     |      |  | 1.9              |      | 1.7                          |                  |         | 3.1              |                  |          |        |        |       |       |
| Environment               |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Operating temperature(°C) | 0~50/-20~60(option)                                                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Storage temperature(°C)   | -30~70                                                                                  |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                     |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Certification             | CE/FCC Class A/CB/UL                                                                    |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Operating System Support  |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |
| Windows 10 IoT            |                                                                                         |      |  |                  |      |                              |                  |         |                  |                  |          |        |        |       |       |

# ARCHMI-8XX Series

Innovating Fast, Baytrail Solution



| Model Name                | ARCHMI-815(P)(H)                                                                        |  |       | ARCHMI-816(P)(H)   |       |             | ARCHMI-817(P)(H) |             |        |         |  |
|---------------------------|-----------------------------------------------------------------------------------------|--|-------|--------------------|-------|-------------|------------------|-------------|--------|---------|--|
| System                    |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Processor                 | Intel Celeron N2930 Processor(2M Cache,1.83GHz)/ Atom E3845 Processor(2M Cache,1.91GHz) |  |       |                    |       |             |                  |             |        |         |  |
| System Chipset            | SoC                                                                                     |  |       |                    |       |             |                  |             |        |         |  |
| System Memory             | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                             |  |       |                    |       |             |                  |             |        |         |  |
| External I/O              |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| USB                       | 2 x USB 3.0 type A                                                                      |  |       |                    |       |             |                  |             |        |         |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                   |  |       |                    |       |             |                  |             |        |         |  |
| LAN                       | 2 x GbE RJ-45                                                                           |  |       |                    |       |             |                  |             |        |         |  |
| Audio                     | 1 x Line-out                                                                            |  |       |                    |       |             |                  |             |        |         |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                  |  |       |                    |       |             |                  |             |        |         |  |
| Storage Space             |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| HDD                       | 1 x 2.5" SATA3 HDD/SSD space                                                            |  |       |                    |       |             |                  |             |        |         |  |
| Movable device            | 1 x SD card slot, up to 32GB                                                            |  |       |                    |       |             |                  |             |        |         |  |
| Expansion                 |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Onboard expansion bus     | 1 x mini-PCIe slot(full size)<br>1 x Micro SIM slot                                     |  |       |                    |       |             |                  |             |        |         |  |
| Display                   |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Display type              | 15" TFT-LCD                                                                             |  |       | 15.6" TFT-LCD      |       |             | 17" TFT-LCD      |             |        |         |  |
| Max. resolution           | 1024 x 768                                                                              |  |       | 1366 x 768         |       | 1920 x 1080 |                  | 1280 x 1024 |        |         |  |
| Max. color                | 16.2M                                                                                   |  | 16.7M |                    | 16.7M |             | 16.2M            |             | 16.7M  |         |  |
| Luminance(cd/m²)          | 300                                                                                     |  | 1000  |                    | 400   |             | 1000             |             | 450    |         |  |
| View angle(H°/V°)         | 176/176                                                                                 |  |       | 170/160            |       | 160/160     |                  | 170/170     |        | 170/160 |  |
| Contrast Ratio            | 1000:1                                                                                  |  | 800:1 |                    | 500:1 |             | 800:1            |             | 1000:1 |         |  |
| Backlight lifetime(hrs)   | 70000                                                                                   |  |       | 50000              |       |             | 30000            |             |        | 50000   |  |
| Touch Screen              |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Type                      | Resistive Touch<br>Projected Capacitive(For P model)                                    |  |       |                    |       |             |                  |             |        |         |  |
| Interface                 | USB                                                                                     |  |       |                    |       |             |                  |             |        |         |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |  |       |                    |       |             |                  |             |        |         |  |
| Power                     |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Power input               | DC 9~36V                                                                                |  |       |                    |       |             |                  |             |        |         |  |
| Power Consumption (TYP.)  | 30                                                                                      |  |       | 35                 |       |             | 38               |             |        |         |  |
| Mechanical                |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Construction              | Aluminum die-casting Chassis                                                            |  |       |                    |       |             |                  |             |        |         |  |
| IP rating                 | IP66 Compliant Front Bezel                                                              |  |       |                    |       |             |                  |             |        |         |  |
| Mounting                  | Panel Mount, VESA 100 x 100                                                             |  |       |                    |       |             |                  |             |        |         |  |
| Dimension(mm)             | 410 x 310 x 54.67                                                                       |  |       | 412 x 277.5 x 58.9 |       |             | 439 x 348 x 64.8 |             |        |         |  |
| Net weight(Kg)            | 3.1                                                                                     |  |       | 4.9                |       |             | 6.2              |             |        |         |  |
| Environment               |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                   |  |       |                    |       |             |                  |             |        |         |  |
| Storage temperature(°C)   | -30~70                                                                                  |  |       |                    |       |             |                  |             |        |         |  |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                     |  |       |                    |       |             |                  |             |        |         |  |
| Certification             | CE/FCC Class A/CB/UL                                                                    |  |       |                    |       |             |                  |             |        |         |  |
| Operating System Support  |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |
| Windows 10 IoT            |                                                                                         |  |       |                    |       |             |                  |             |        |         |  |



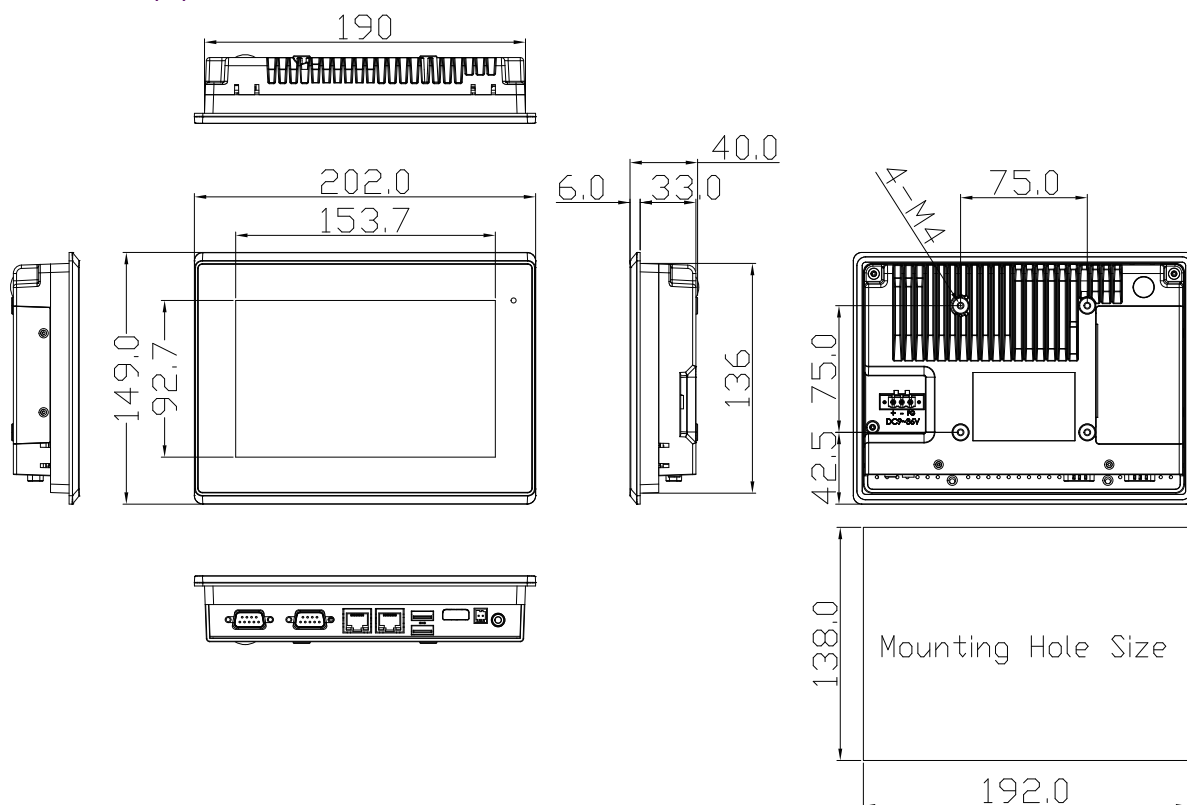
| Model Name                |  | ARCHMI-818(P)(H)                                                                        |      |             |      | ARCHMI-819(P)(H) |  |      |  | ARCHMI-821(P)(H) |  |      |  |
|---------------------------|--|-----------------------------------------------------------------------------------------|------|-------------|------|------------------|--|------|--|------------------|--|------|--|
| System                    |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Processor                 |  | Intel Celeron N2930 Processor(2M Cache,1.83GHz)/ Atom E3845 Processor(2M Cache,1.91GHz) |      |             |      |                  |  |      |  |                  |  |      |  |
| System Chipset            |  | SoC                                                                                     |      |             |      |                  |  |      |  |                  |  |      |  |
| System Memory             |  | Onboard 4GB DDR3L SDRAM , up to 8GB(option)                                             |      |             |      |                  |  |      |  |                  |  |      |  |
| External I/O              |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| USB                       |  | 2 x USB 3.0 type A                                                                      |      |             |      |                  |  |      |  |                  |  |      |  |
| Serial/Parallel           |  | 1 x RS-232/422/485 DB9(COM1) , default RS-232<br>1 x RS-232 DB9(COM2)                   |      |             |      |                  |  |      |  |                  |  |      |  |
| LAN                       |  | 2 x GbE RJ-45                                                                           |      |             |      |                  |  |      |  |                  |  |      |  |
| Audio                     |  | 1 x Line-out                                                                            |      |             |      |                  |  |      |  |                  |  |      |  |
| Power connector           |  | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                  |      |             |      |                  |  |      |  |                  |  |      |  |
| Storage Space             |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| HDD                       |  | 1 x 2.5" SATA3 HDD/SSD space                                                            |      |             |      |                  |  |      |  |                  |  |      |  |
| Movable device            |  | 1 x SD card slot, up to 32GB                                                            |      |             |      |                  |  |      |  |                  |  |      |  |
| Expansion                 |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Onboard expansion bus     |  | 1 x mini-PCle slot(full size)<br>1 x Micro SIM slot                                     |      |             |      |                  |  |      |  |                  |  |      |  |
| Display                   |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Display type              |  | 18.5" TFT-LCD                                                                           |      |             |      | 19" TFT-LCD      |  |      |  | 21.5" TFT-LCD    |  |      |  |
| Max. resolution           |  | 1366 x 768                                                                              |      | 1920 x 1080 |      | 1280 x 1024      |  |      |  | 1920 x 1080      |  |      |  |
| Max. color                |  | 16.7M                                                                                   |      |             |      | 16.7M            |  |      |  | 16.7M            |  |      |  |
| Luminance(cd/m²)          |  | 300                                                                                     | 1000 | 350         | 1000 | 350              |  | 1000 |  | 250              |  | 1000 |  |
| View angle(H°/V°)         |  | 170/160                                                                                 |      | 178/178     |      | 170/160          |  |      |  | 178/178          |  |      |  |
| Contrast Ratio            |  | 1000:1                                                                                  |      |             |      | 1000:1           |  |      |  | 1000:1           |  |      |  |
| Backlight lifetime(hrs)   |  | 50000                                                                                   |      | 40000       |      | 50000            |  |      |  | 50000            |  |      |  |
| Touch Screen              |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Type                      |  | Resistive Touch<br>Projected Capacitive(For P model)                                    |      |             |      |                  |  |      |  |                  |  |      |  |
| Interface                 |  | USB                                                                                     |      |             |      |                  |  |      |  |                  |  |      |  |
| Light transmission(%)     |  | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |      |             |      |                  |  |      |  |                  |  |      |  |
| Power                     |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Power input               |  | DC 9~36V                                                                                |      |             |      |                  |  |      |  |                  |  |      |  |
| Power Consumption (TYP.)  |  | 45                                                                                      |      |             |      | 42               |  |      |  | 42               |  |      |  |
| Mechanical                |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Construction              |  | Aluminum die-casting Chassis                                                            |      |             |      |                  |  |      |  |                  |  |      |  |
| IP rating                 |  | IP66 Compliant Front Bezel                                                              |      |             |      |                  |  |      |  |                  |  |      |  |
| Mounting                  |  | Panel Mount , VESA 100 x 100                                                            |      |             |      |                  |  |      |  |                  |  |      |  |
| Dimension(mm)             |  | 499.6 x 314.6 x 59.9-ARCHMI-818(P)<br>499.6 x 314.6 x 72 -ARCHMI-818(P)H                |      |             |      | 468 x 380 x 64.8 |  |      |  | 557 x 362 x 64.8 |  |      |  |
| Net weight(Kg)            |  | 6                                                                                       |      |             |      | 6                |  |      |  | 7.5              |  |      |  |
| Environment               |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Operating temperature(°C) |  | 0 ~ 50/-20~60(option)                                                                   |      |             |      |                  |  |      |  | 0~50             |  |      |  |
| Storage temperature(°C)   |  | -30~70                                                                                  |      |             |      |                  |  |      |  |                  |  |      |  |
| Humidity                  |  | 10 ~ 90% RH @ 40 °C, non-condensing                                                     |      |             |      |                  |  |      |  |                  |  |      |  |
| Certification             |  | CE/FCC Class A/CB/UL                                                                    |      |             |      |                  |  |      |  |                  |  |      |  |
| Operating System Support  |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |
| Windows 10 IoT            |  |                                                                                         |      |             |      |                  |  |      |  |                  |  |      |  |



## ARCHMI-8XX Series

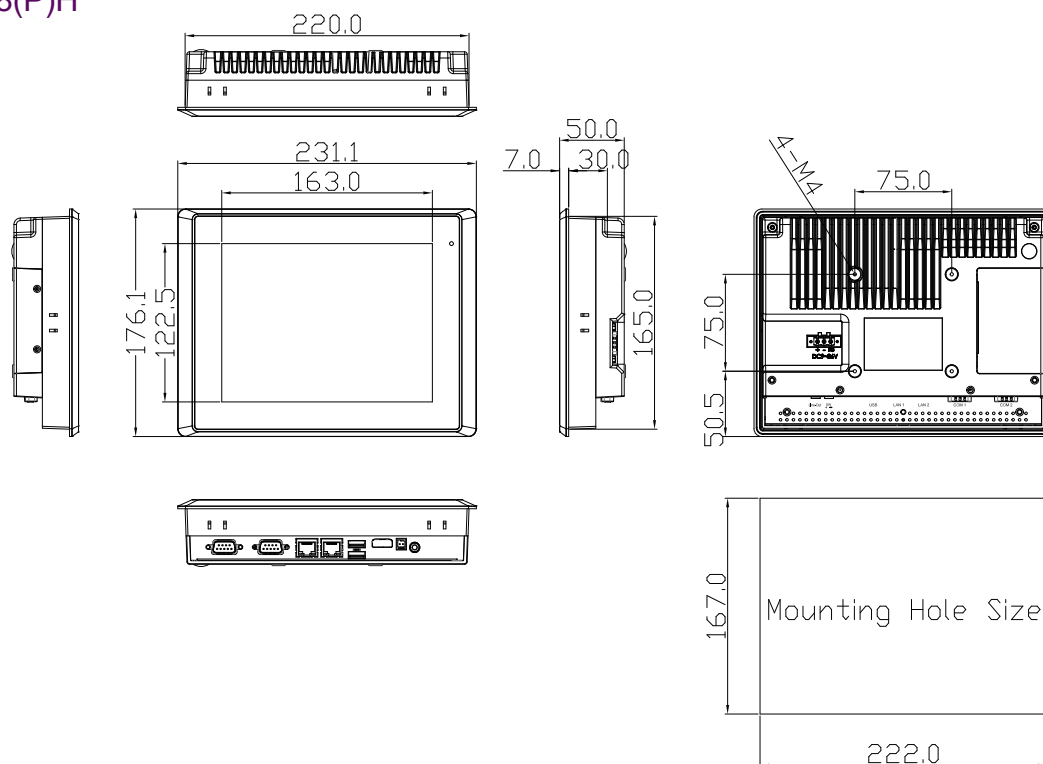
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### ARCHMI-807(P) ARCHMI-807(P)H



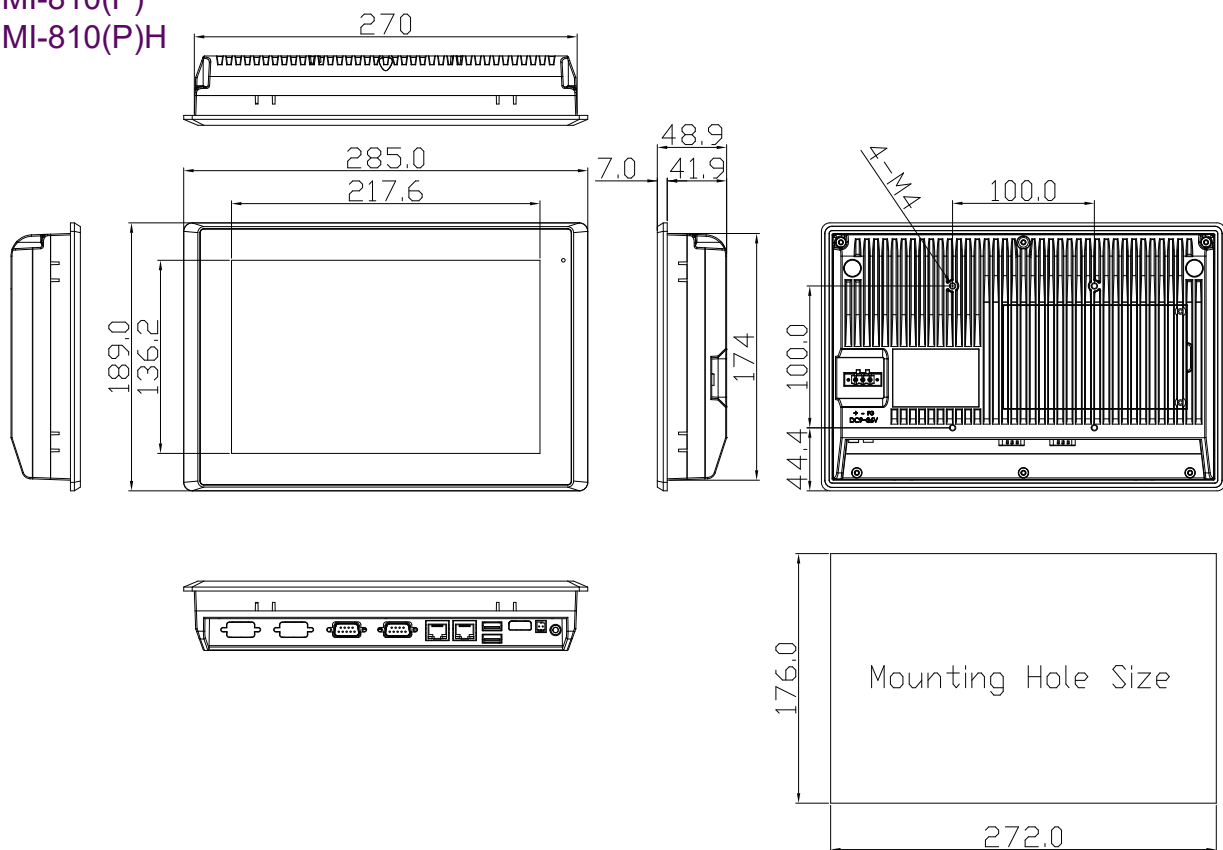
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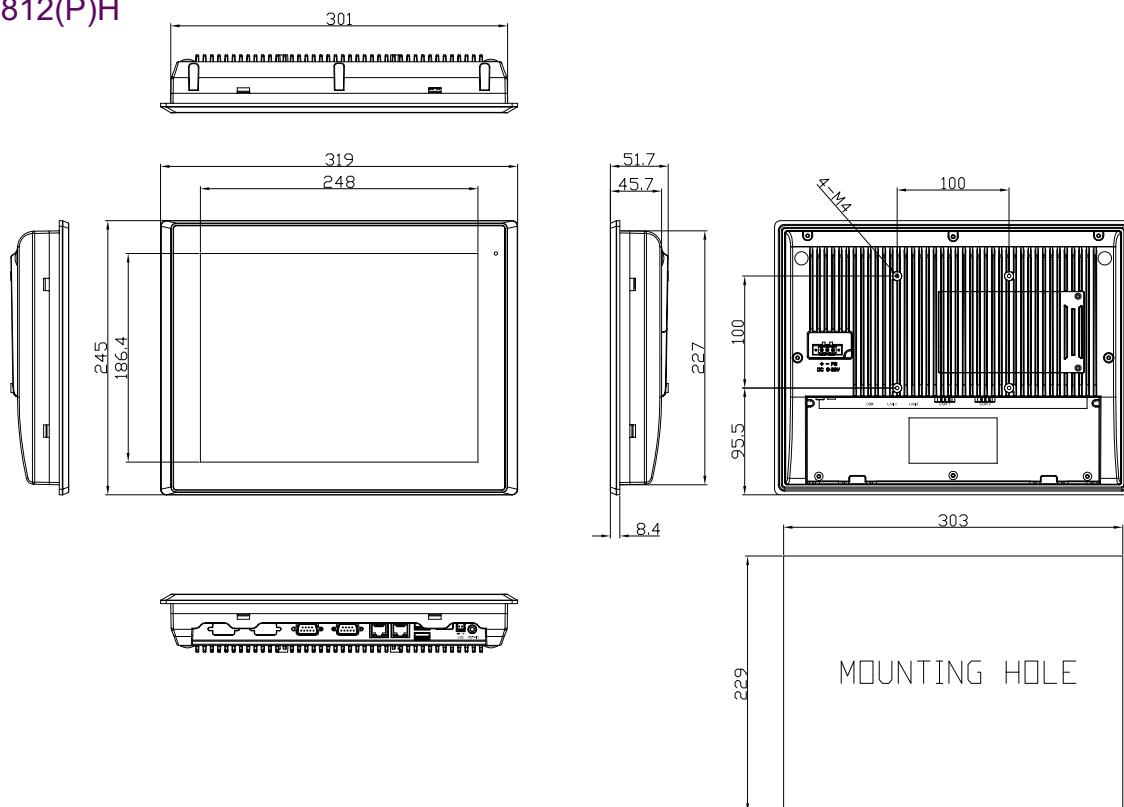
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## ARCHMI-810(P) ARCHMI-810(P)H



unit:mm

## ARCHMI-812(P) ARCHMI-812(P)H

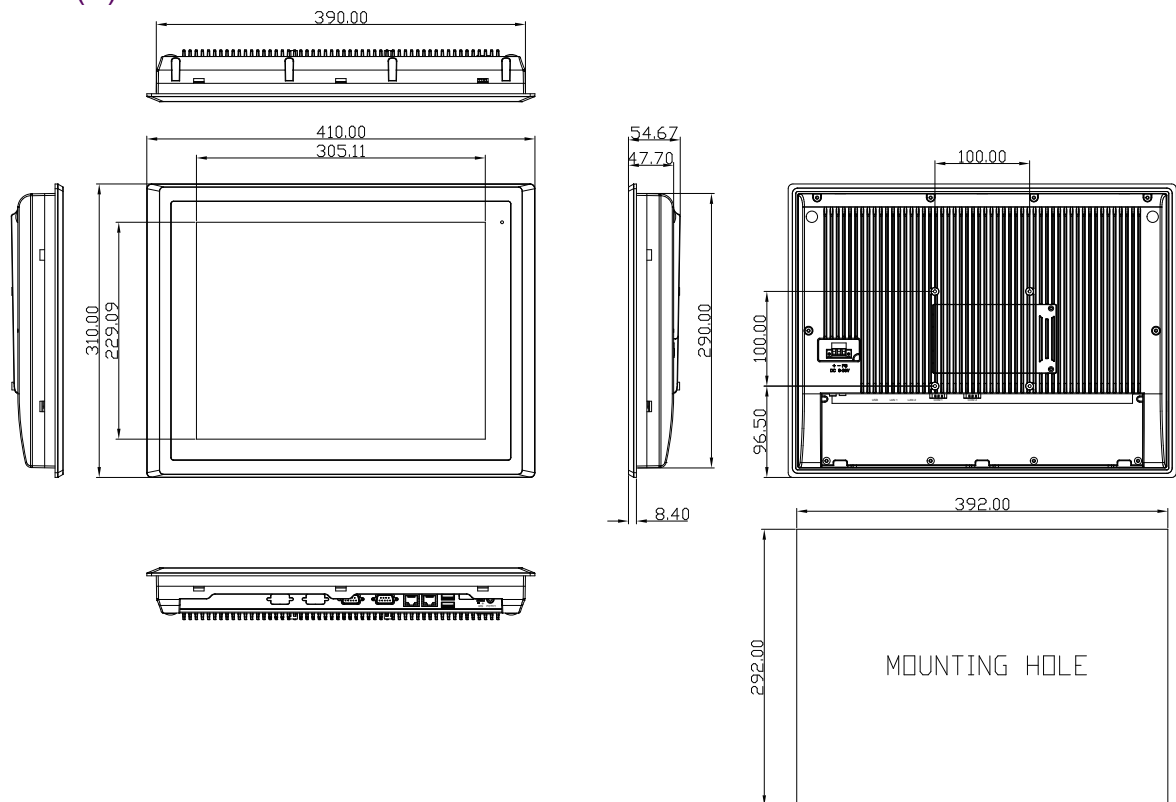


unit:mm

## ARCHMI-8XX Series

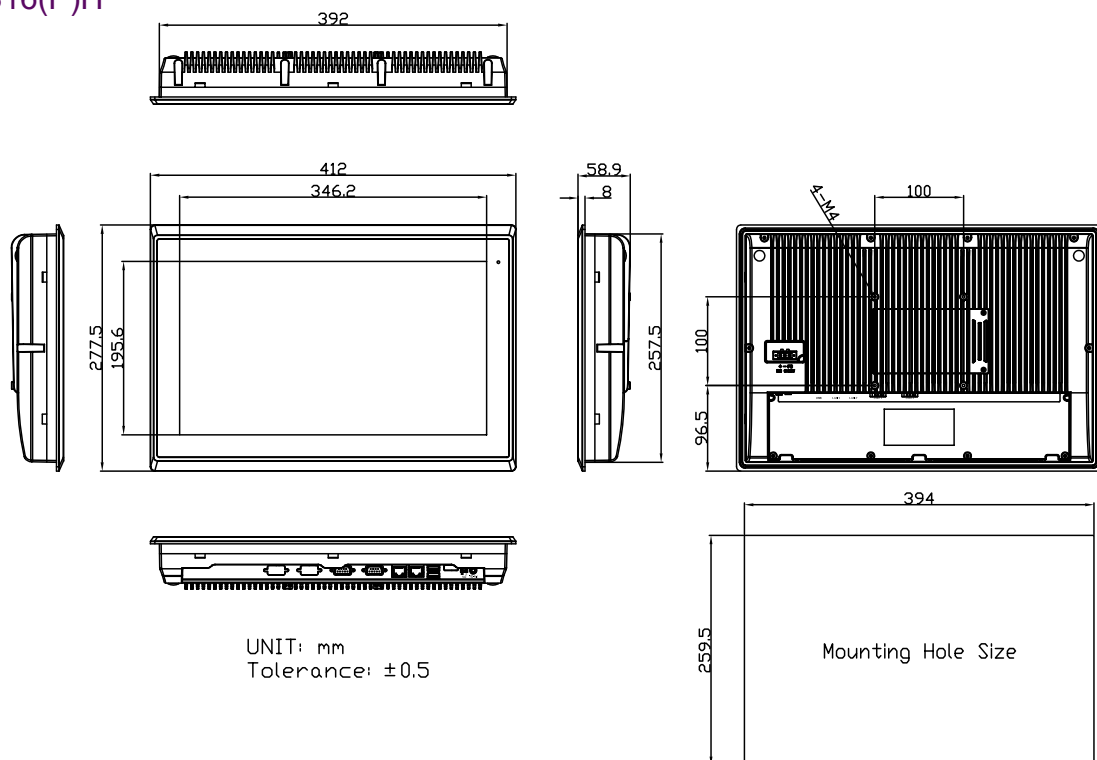
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### ARCHMI-815(P) ARCHMI-815(P)H



unit:mm

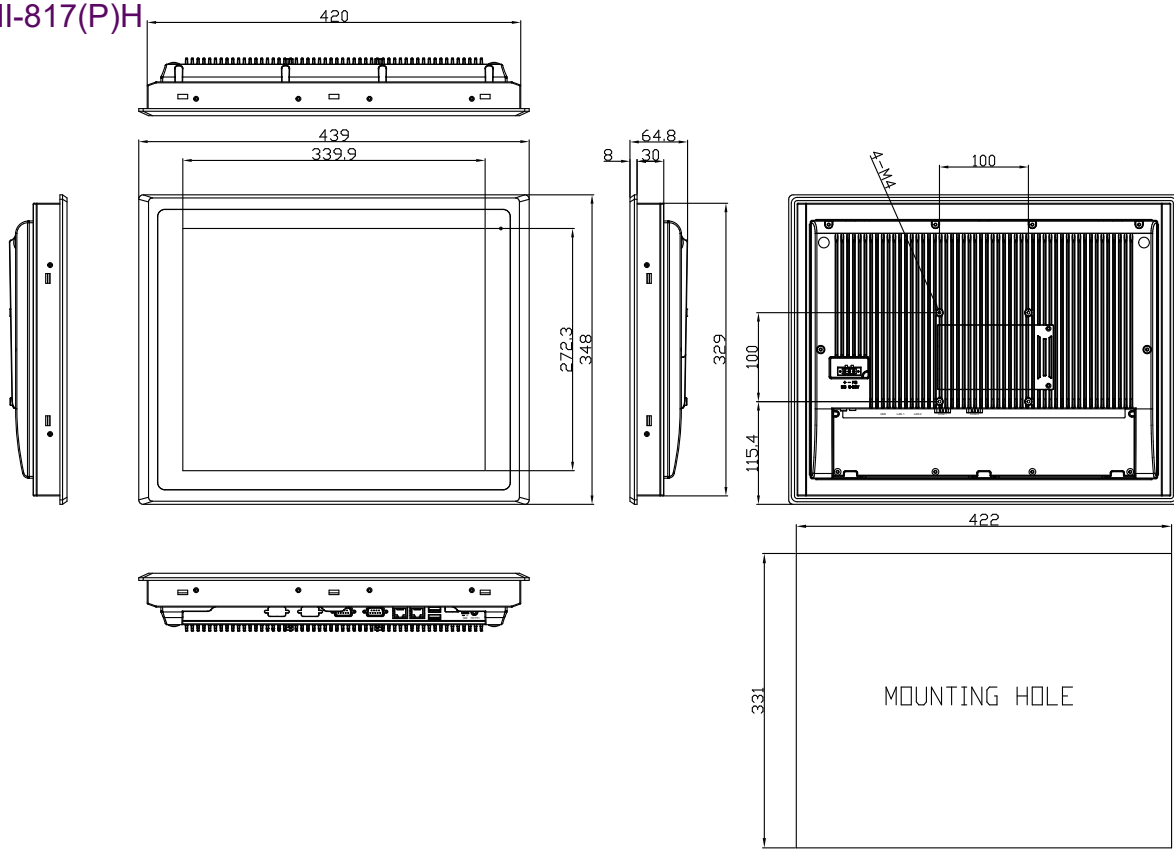
### ARCHMI-816(P) ARCHMI-816(P)H



UNIT: mm  
Tolerance:  $\pm 0.5$

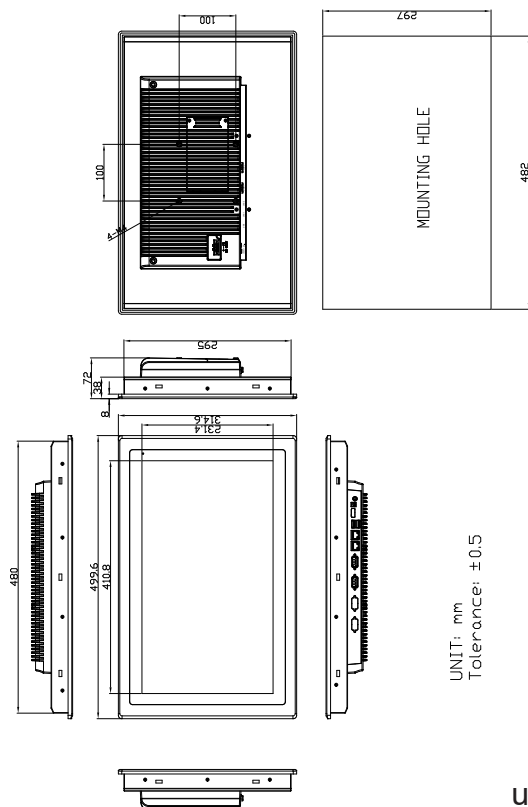
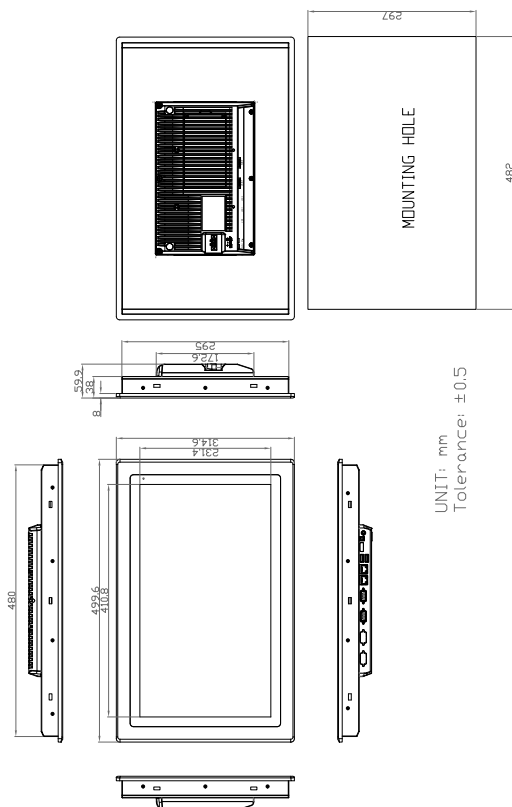
unit:mm

## ARCHMI-817(P) ARCHMI-817(P)H



## ARCHMI-818(P)

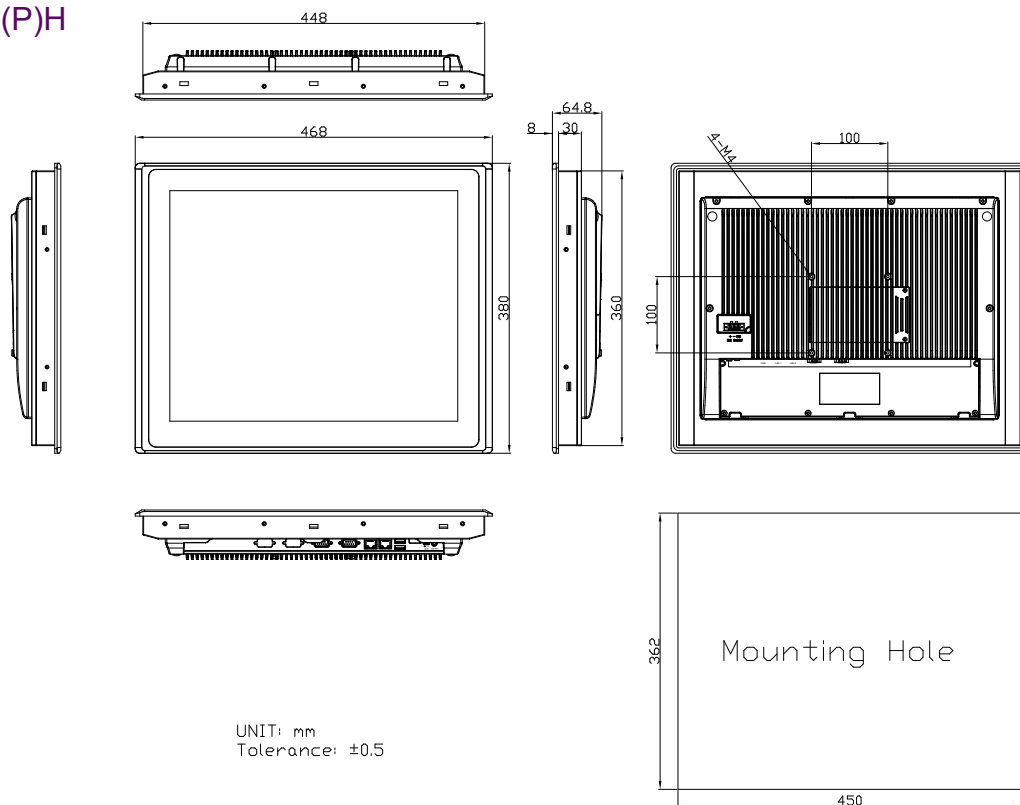
## ARCHMI-818(P)H



## ARCHMI-8XX Series

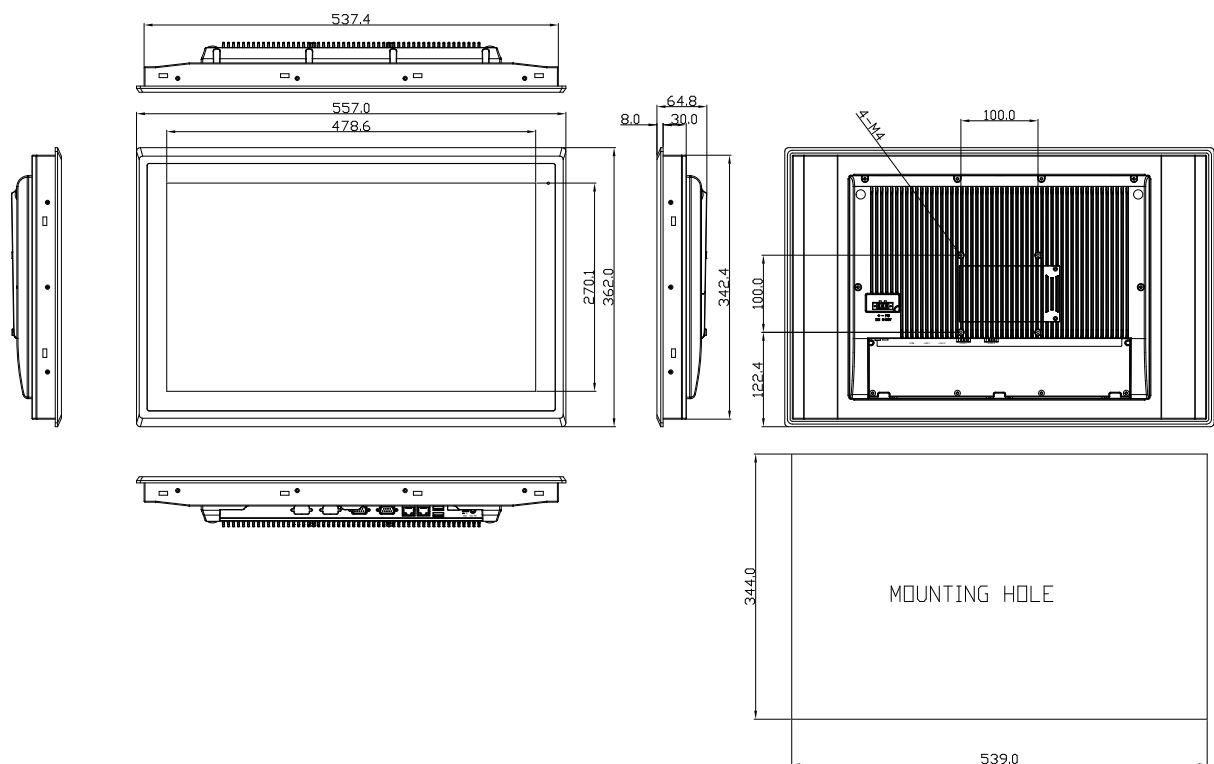
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### ARCHMI-819(P) ARCHMI-819(P)H



unit:mm

### ARCHMI-821(P) ARCHMI-821(P)H



unit:mm



## Ordering information

| Model NO.          | Description                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCHMI-807</b>  | 7" WVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis                 |
| <b>ARCHMI-807P</b> | 7" WVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis      |
| <b>ARCHMI-808</b>  | 8" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis                 |
| <b>ARCHMI-808P</b> | 8" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis      |
| <b>ARCHMI-810</b>  | 10.1" WXGA fanless HMI barebone with Celeron N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis            |
| <b>ARCHMI-810P</b> | 10.1" WXGA fanless HMI barebone with Celeron N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis |
| <b>ARCHMI-812</b>  | 12.1" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis              |
| <b>ARCHMI-812P</b> | 12.1" SVGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis   |
| <b>ARCHMI-815</b>  | 15" XGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis                 |
| <b>ARCHMI-815P</b> | 15" XGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis      |
| <b>ARCHMI-816</b>  | 15.6" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis              |
| <b>ARCHMI-816P</b> | 15.6" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3 RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis    |
| <b>ARCHMI-817</b>  | 17" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis                |
| <b>ARCHMI-817P</b> | 17" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-818</b>  | 18.5" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis              |
| <b>ARCHMI-818P</b> | 18.5" WXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis   |
| <b>ARCHMI-819</b>  | 19" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis                |
| <b>ARCHMI-819P</b> | 19" SXGA Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis     |
| <b>ARCHMI-821</b>  | 21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis               |
| <b>ARCHMI-821P</b> | 21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, 9~36VDC input with adapter, Aluminum chassis    |

## Ordering information

| Model NO.           | Description                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCHMI-807H</b>  | 7" WVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD              |
| <b>ARCHMI-807PH</b> | 7" WVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD          |
| <b>ARCHMI-808H</b>  | 8" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD              |
| <b>ARCHMI-808PH</b> | 8" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD          |
| <b>ARCHMI-810H</b>  | 10.1" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD           |
| <b>ARCHMI-810PH</b> | 10.1" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD      |
| <b>ARCHMI-812H</b>  | 12.1" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD           |
| <b>ARCHMI-812PH</b> | 12.1" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD       |
| <b>ARCHMI-815H</b>  | 15" XGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD              |
| <b>ARCHMI-815PH</b> | 15" XGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD         |
| <b>ARCHMI-816H</b>  | 15.6" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD           |
| <b>ARCHMI-816PH</b> | 15.6" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD      |
| <b>ARCHMI-817H</b>  | 17" SXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD             |
| <b>ARCHMI-817PH</b> | 17" SXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD         |
| <b>ARCHMI-818H</b>  | 18.5" WXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD     |
| <b>ARCHMI-818PH</b> | 18.5" WXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD |
| <b>ARCHMI-819H</b>  | 19" SXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD       |
| <b>ARCHMI-819PH</b> | 19" SXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD  |
| <b>ARCHMI-821H</b>  | 21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD            |
| <b>ARCHMI-821PH</b> | 21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch,, 9~36VDC input with adapter, Aluminum chassis, 1,000 nits LCD       |



# ARMPAC-6XXB(P) Series

New Generation ARM Based HMI

High Performance ARM Based HMI

- Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz
- Fanless ARM Based HMI
- Onboard 4GB LPDDR4 SDRAM
- Front IP65 Flat Front Panel Touch Screen
- DC 24V Power Input with 3KV Power Isolation



Quad core Cortex-A72



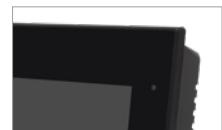
Onboard 4GB LPDDR4 SDRAM



Fanless ARM Based HMI



Flat Front Panel Touch Screen



Micro SD Slot and USB Download Mode



# ARMPAC-6XXB(P) Series

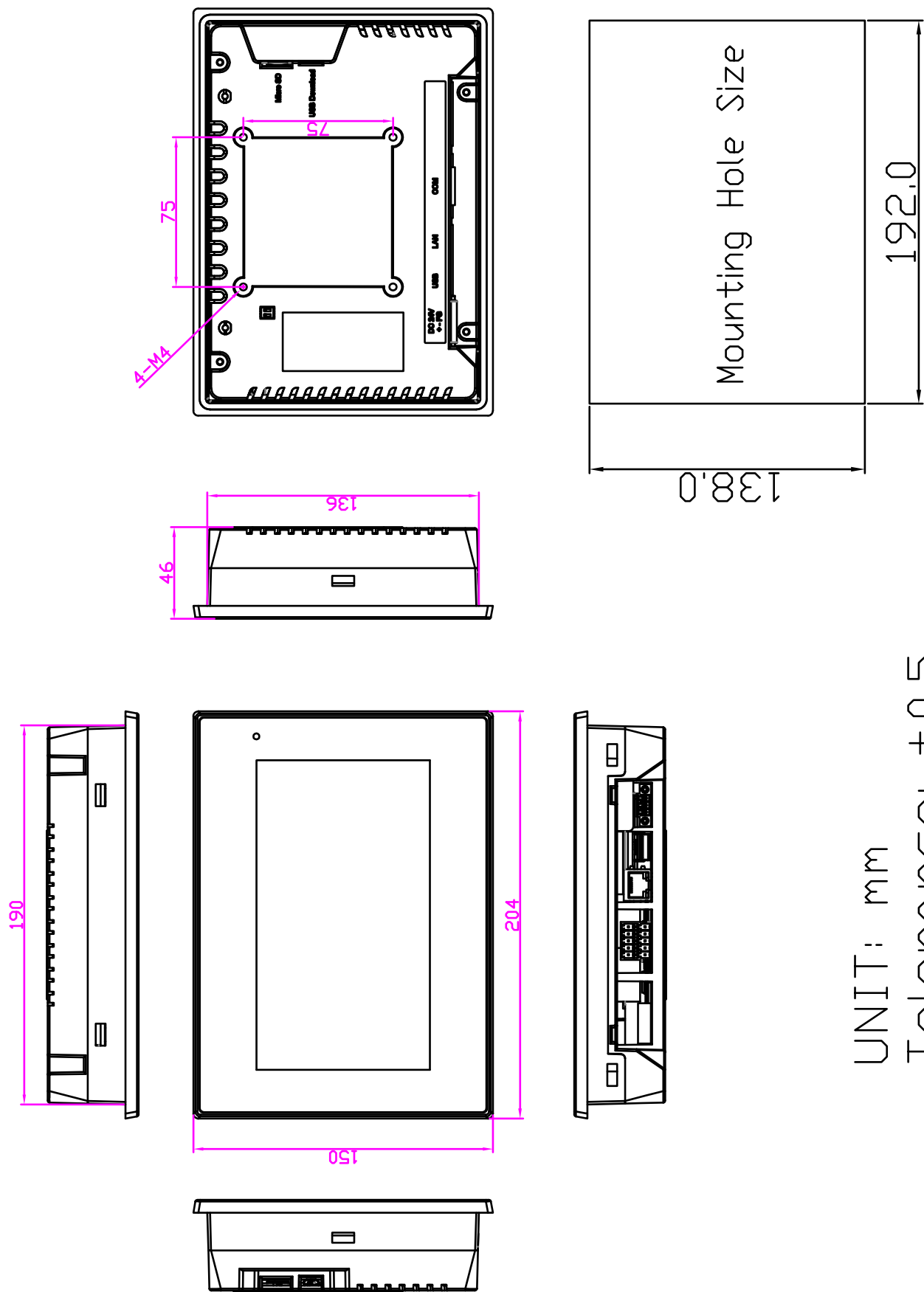
New Generation ARM Based HMI



## Specifications

| Model Name                | ARMPAC-607B(P)                                                                                                            | ARMPAC-610B(P)   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------|
| System                    |                                                                                                                           |                  |
| Processor                 | Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz                                                                         |                  |
| System Chipset            | N/A                                                                                                                       |                  |
| System Memory             | Onboard 4GB LPDDR4 SDRAM                                                                                                  |                  |
| External I/O              |                                                                                                                           |                  |
| USB                       | 1 x USB 2.0, USB type A<br>1 x USB Download, Micro USB                                                                    |                  |
| Serial/Parallel           | 1 x 2x5pin Terminal Block with 2xCOM<br>COM1: RS-232(RX,TX,RTS,CTS)/2W 485, default RS-232<br>COM2: RS-232(RX,TX,RTS,CTS) |                  |
| LAN                       | 1 x GbE LAN, RJ-45                                                                                                        |                  |
| Audio                     | 1 x Line-out                                                                                                              |                  |
| Power connector           | 1 x 3-pin terminal block connector                                                                                        |                  |
| Storage Space             |                                                                                                                           |                  |
| Flash                     | Onboard 16GB/32GB(option) eMMC Flash                                                                                      |                  |
| Movable device            | 1 x micro SD slot<br>*Storage expansion only                                                                              |                  |
| Expansion                 |                                                                                                                           |                  |
| Onboard expansion bus     | 1 x mini-PCIe slot(half/full size)<br>1 x micro Sim Card slot                                                             |                  |
| Display                   |                                                                                                                           |                  |
| Display type              | 7" TFT-LCD                                                                                                                | 10.1" TFT-LCD    |
| Max. resolution           | 800 x 480                                                                                                                 | 1280 x 800       |
| Max. color                | 262K                                                                                                                      | 16.7M            |
| Luminance(cd/m²)          | 400                                                                                                                       | 350              |
| View angle(H°/V°)         | 140/140                                                                                                                   | 170/170          |
| Backlight lifetime(hrs)   | 20000                                                                                                                     | 30000            |
| Touch Screen              |                                                                                                                           |                  |
| Type                      | Projected Capacitive                                                                                                      |                  |
| Interface                 | USB                                                                                                                       |                  |
| Light transmission(%)     | Projected Capacitive : 90%                                                                                                |                  |
| Power                     |                                                                                                                           |                  |
| Power input               | DC 24V only                                                                                                               |                  |
| Power Consumption (TYP.)  | 6.17W                                                                                                                     | TBD              |
| Mechanical                |                                                                                                                           |                  |
| Construction              | Plastic front bezel and Chassis                                                                                           |                  |
| IP rating                 | IP 65 compliant front bezel                                                                                               |                  |
| Mounting                  | Panel Mount, VESA 75 x 75                                                                                                 |                  |
| Dimension(mm)             | 204 x 150 x 46                                                                                                            | 269 x 189 x 49.5 |
| Net weight(Kg)            | 0.7                                                                                                                       | TBD              |
| Environment               |                                                                                                                           |                  |
| Operating temperature(°C) | 0 ~ 50/-20~60(option)                                                                                                     |                  |
| Storage temperature(°C)   | -30~70                                                                                                                    |                  |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                                                         |                  |
| Certification             | CE/FCC Class A/UL                                                                                                         |                  |
| Operating System Support  |                                                                                                                           |                  |
| Android 10 (Default)      |                                                                                                                           |                  |
| Yocto Linux               |                                                                                                                           |                  |

ARMPAC-607B(P)



UNIT: mm  
Tolerance: ±0.5

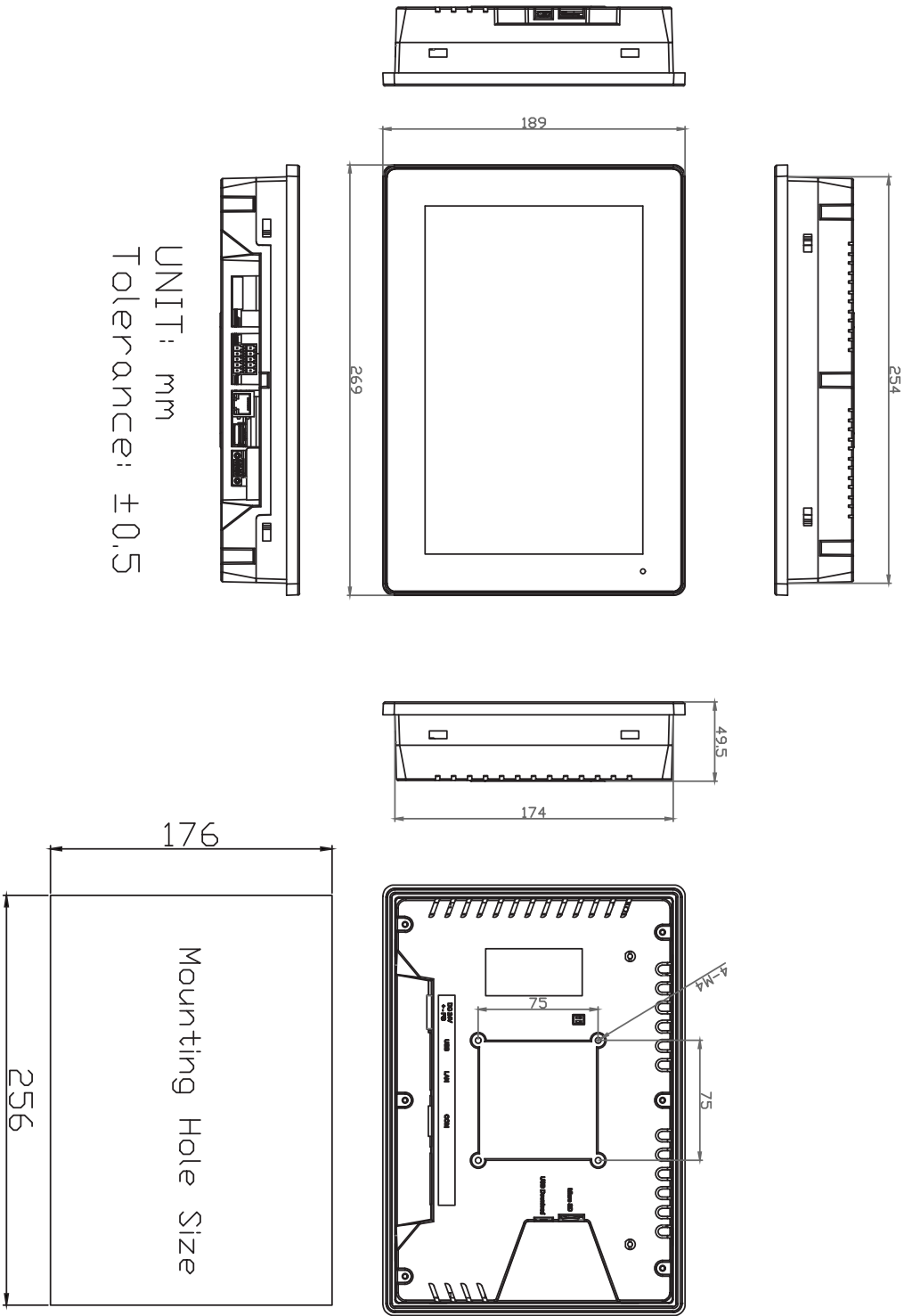
unit:mm



# ARMPAC-6XXB(P) Series

New Gerneration ARM Based HMI

## ARMPAC-610B(P)



unit:mm

### Ordering information

| Model NO.    | Description                                                                                                                                                              |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ARMPAC-607BP | 7" 800x480 fanless HMI barebone with Broadcom BCM2711 quad core ARM Cortex-A72,4GB LPDDR4 ,16/32GB eMMC,PCAP touch, 24V DC input with 3kV isolated, plastic chassis.     |
| ARMPAC-610BP | 10.1" 1280x800 fanless HMI barebone with Broadcom BCM2711 quad core ARM Cortex-A72,4GB LPDDR4 ,16/32GB eMMC,PCAP touch, 24V DC input with 3kV isolated, plastic chassis. |



# ARMPAC-6XX(P) Series

New Generation ARM Based HMI

High Performance ARM Based HMI

- Freescale i.MX6 Dual Lite, Dual Core ARM Cortex-A9 @1.0GHz
- Fanless ARM Based HMI
- Onboard 2GB DDR3 SDRAM
- Front IP65 Flat Front Panel Touch Screen
- Wide range DC 9~36V Input



i.MX6 DualLite ARM  
Cortex A9 processor



Onboard 2GB DDR3  
SDRAM



Fanless ARM Based HMI



Flat Front Panel Touch  
Screen



Wide Range  
DC 9~36V Input



# ARMPAC-6XX(P) Series

New Generation ARM Based HMI



## Specifications

| Model Name                    | ARMPAC-607(P)                                              |  | ARMPAC-608(P)  |  | ARMPAC-610(P)               |  | ARMPAC-612(P)  |            |
|-------------------------------|------------------------------------------------------------|--|----------------|--|-----------------------------|--|----------------|------------|
| System                        |                                                            |  |                |  |                             |  |                |            |
| Processor                     | Freescale i.MX6 Dual Lite, Dual Core ARM Cortex-A9 @1.0GHz |  |                |  |                             |  |                |            |
| System Chipset                | N/A                                                        |  |                |  |                             |  |                |            |
| System Memory                 | Onboard 2GB DDR3 SDRAM                                     |  |                |  |                             |  |                |            |
| External I/O                  |                                                            |  |                |  |                             |  |                |            |
| USB                           | 2 x USB 2.0, USB type A                                    |  |                |  |                             |  |                |            |
| Serial/Parallel               | 1 x RS-232/422/485 DB9 , default RS-232                    |  |                |  |                             |  |                |            |
| LAN                           | 1 x GbE LAN, RJ-45 (POE for option)                        |  |                |  |                             |  |                |            |
| Audio                         | 1 x 2W Speaker(Optional)                                   |  |                |  |                             |  |                |            |
| Power connector               | 1 x 3-pin terminal block connector                         |  |                |  |                             |  |                |            |
| Storage Space                 |                                                            |  |                |  |                             |  |                |            |
| Flash                         | Onboard 4GB eMMC Flash                                     |  |                |  |                             |  |                |            |
| Movable device                | 1 x micro SD slot                                          |  |                |  |                             |  |                |            |
| Expansion                     |                                                            |  |                |  |                             |  |                |            |
| Onboard expansion bus         | 1 x mini-PCle slot(full size)<br>1 x Sim Card slot         |  |                |  |                             |  |                |            |
| Display                       |                                                            |  |                |  |                             |  |                |            |
| Display type                  | 7" TFT-LCD                                                 |  | 8" TFT-LCD     |  | 10.1" TFT-LCD               |  | 12.1" TFT-LCD  |            |
| Max. resolution               | 800 x 480                                                  |  | 800 x 600      |  | 1024 x 600                  |  | 800 x 600      | 1024 x 768 |
| Max. color                    | 262K                                                       |  | 262K           |  | 262K/16.7M                  |  | 262K/16.2M     | 262K       |
| Luminance(cd/m²)              | 350                                                        |  | 450            |  | 250                         |  | 450            | 500        |
| View angle(H°/V°)             | 120/140                                                    |  | 140/120        |  | 140/120                     |  | 178/178        | 160/140    |
| Backlight lifetime(hrs)       | 40000                                                      |  | 40000          |  | 15000                       |  | 50000          | 30000      |
| Touch Screen                  |                                                            |  |                |  |                             |  |                |            |
| Type                          | Resistive Touch<br>Projected Capacitive(For P model)       |  |                |  |                             |  |                |            |
| Interface                     | SPI / USB(For P model)                                     |  |                |  |                             |  |                |            |
| Light transmission(%)         | Resistive Touch : 80%<br>Projected Capacitive : 90%        |  |                |  |                             |  |                |            |
| Power                         |                                                            |  |                |  |                             |  |                |            |
| Power input                   | DC 9~36V                                                   |  |                |  |                             |  |                |            |
| Power Consumption (TYP.)      | 5.3W                                                       |  | 7W             |  | 7W                          |  | 10.8W          |            |
| Mechanical                    |                                                            |  |                |  |                             |  |                |            |
| Construction                  | Plastic Front Bezel and Chassis                            |  |                |  |                             |  |                |            |
| IP rating                     | IP65 Compliant Front Bezel                                 |  |                |  |                             |  |                |            |
| Mounting                      | Panel Mount, VESA 75 x 75                                  |  |                |  | Panel Mount, VESA 100 x 100 |  |                |            |
| Dimension(mm)                 | 204 x 150 x 42.5                                           |  | 231 x 176 x 45 |  | 285 x 189 x 49.6            |  | 319 x 245 x 51 |            |
| Net weight(Kg)                | 2.8                                                        |  | 0.9            |  | 1.3                         |  | 1.5            |            |
| Environment                   |                                                            |  |                |  |                             |  |                |            |
| Operating temperature(°C)     | 0~50/-20~60 for option                                     |  |                |  |                             |  |                |            |
| Storage temperature(°C)       | -30~70                                                     |  |                |  |                             |  |                |            |
| Humidity                      | 10 to 90% @ 40°C, non- condensing                          |  |                |  |                             |  |                |            |
| Certification                 | CE/FCC Class A/UL                                          |  |                |  |                             |  |                |            |
| Operating System Support      |                                                            |  |                |  |                             |  |                |            |
| Android 6                     |                                                            |  |                |  |                             |  |                |            |
| Linux 4.9.88+Chromium Browser |                                                            |  |                |  |                             |  |                |            |

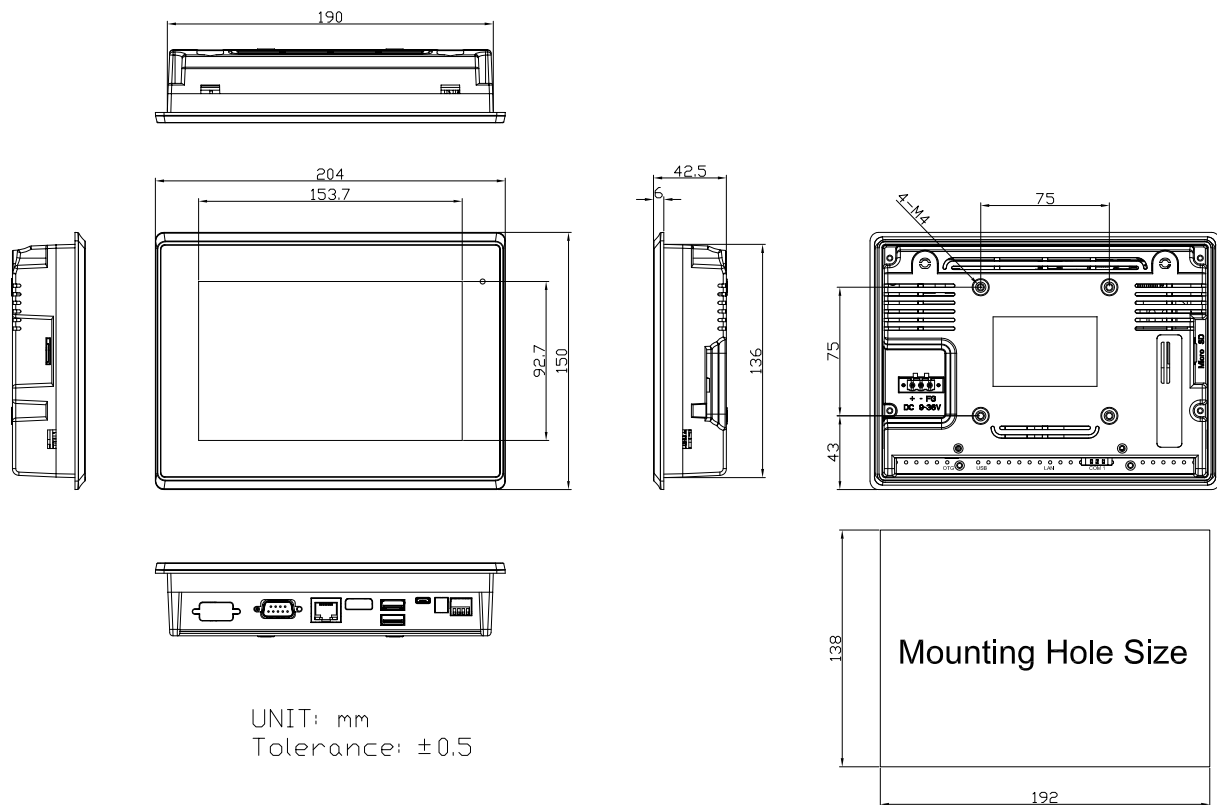


| Model Name                                 | ARMPAC-615(P)                                              | ARMPAC-616(P)      | ARMPAC-621(P)    |
|--------------------------------------------|------------------------------------------------------------|--------------------|------------------|
| System                                     |                                                            |                    |                  |
| Processor                                  | Freescale i.MX6 Dual Lite, Dual Core ARM Cortex-A9 @1.0GHz |                    |                  |
| System Chipset                             | NA                                                         |                    |                  |
| System Memory                              | Onboard 2GB DDR3 SDRAM                                     |                    |                  |
| External I/O                               |                                                            |                    |                  |
| USB                                        | 2 x USB 2.0, USB type A                                    |                    |                  |
| Serial/Parallel                            | 1 x RS-232/422/485 DB9 , default RS-232                    |                    |                  |
| LAN                                        | 1 x GbE LAN RJ-45 (POE for option)                         | 1 x GbE LAN RJ-45  |                  |
| Audio                                      | 1 x 2W Speaker(Optional)                                   |                    |                  |
| Power connector                            | 1 x 3-pin terminal block connector                         |                    |                  |
| Storage Space                              |                                                            |                    |                  |
| Flash                                      | Onboard 4GB eMMC Flash                                     |                    |                  |
| Movable device                             | 1 x micro SD slot                                          |                    |                  |
| Expansion                                  |                                                            |                    |                  |
| Onboard expansion bus                      | 1 x mini-PCle slot(full size)<br>1 x Sim Card slot         |                    |                  |
| Display                                    |                                                            |                    |                  |
| Display type                               | 15" TFT-LCD                                                | 15.6" TFT-LCD      | 21.5" TFT-LCD    |
| Max. resolution                            | 1024 x 768                                                 | 1366 x 768         | 1920 x 1080      |
| Max. color                                 | 262K/16.2M                                                 | 16.7M              | 16.7M            |
| Luminance(cd/m²)                           | 300                                                        | 300                | 250              |
| View angle(H°/V°)                          | 176/176                                                    | 170/160            | 178/178          |
| Backlight lifetime(hrs)                    | 70000                                                      | 50000              | 30000            |
| Touch Screen                               |                                                            |                    |                  |
| Type                                       | Resistive Touch<br>Projected Capacitive(For P model)       |                    |                  |
| Interface                                  | SPI / USB(For P model)                                     |                    |                  |
| Light transmission(%)                      | Resistive Touch : 80%<br>Projected Capacitive : 90%        |                    |                  |
| Power                                      |                                                            |                    |                  |
| Power input                                | DC 9~36V                                                   |                    | DC 12~36V        |
| Power Consumption (TYP.)                   | 11.1W                                                      | 15.8W              | 20.6W            |
| Mechanical                                 |                                                            |                    |                  |
| Construction                               | Aluminum die-casting Chassis                               |                    |                  |
| IP rating                                  | IP66 Compliant Front Bezel                                 |                    |                  |
| Mounting                                   | Panel Mount, VESA 100 x 100                                |                    |                  |
| Dimension(mm)                              | 410 x 310 x 54.6                                           | 412 x 277.5 x 58.9 | 557 x 362 x 64.8 |
| Net weight(Kg)                             | 4.5                                                        | 4.3                | 7.5              |
| Environment                                |                                                            |                    |                  |
| Operating temperature(°C)                  | 0~50/-20~60 for option                                     | 0~50               |                  |
| Storage temperature(°C)                    | -30~70                                                     |                    |                  |
| Humidity                                   | 10 to 90% @ 40°C, non- condensing                          |                    |                  |
| Certification                              | CE/FCC Class A/UL                                          |                    |                  |
| Operating System Support                   |                                                            |                    |                  |
| Android 6<br>Linux 4.9.88+Chromium Browser |                                                            |                    |                  |

## ARMPAC-6XX(P) Series

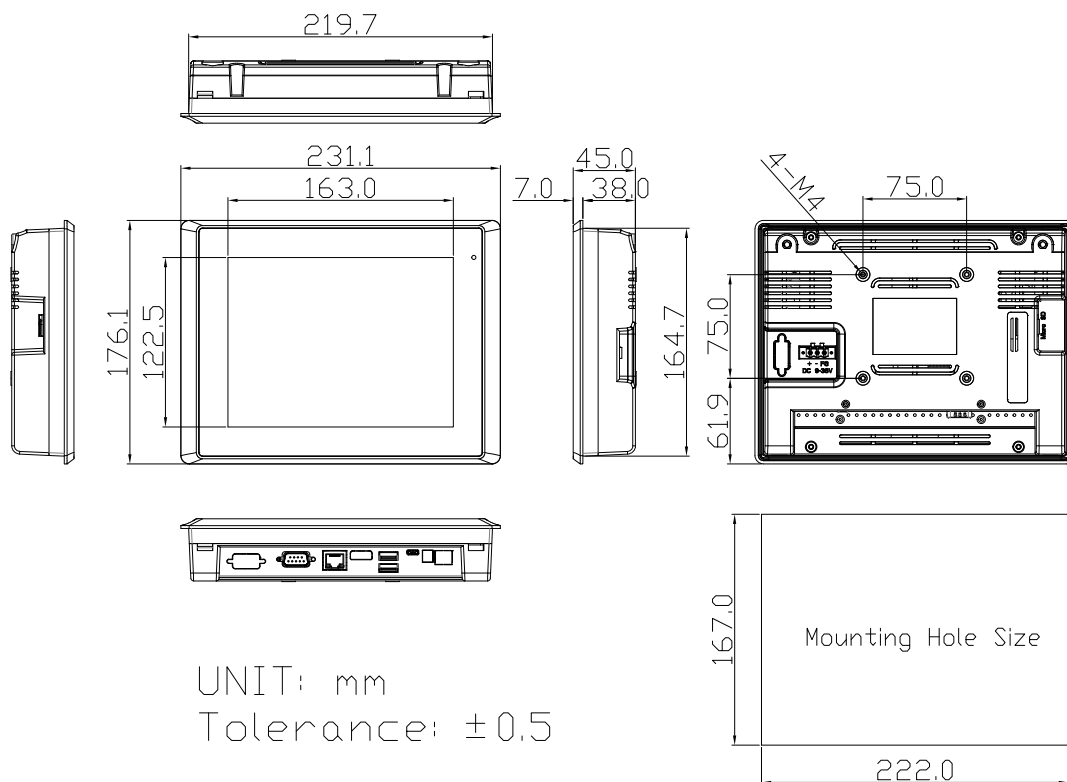
New Generation ARM Based HMI

### ARMPAC-607(P)



unit:mm

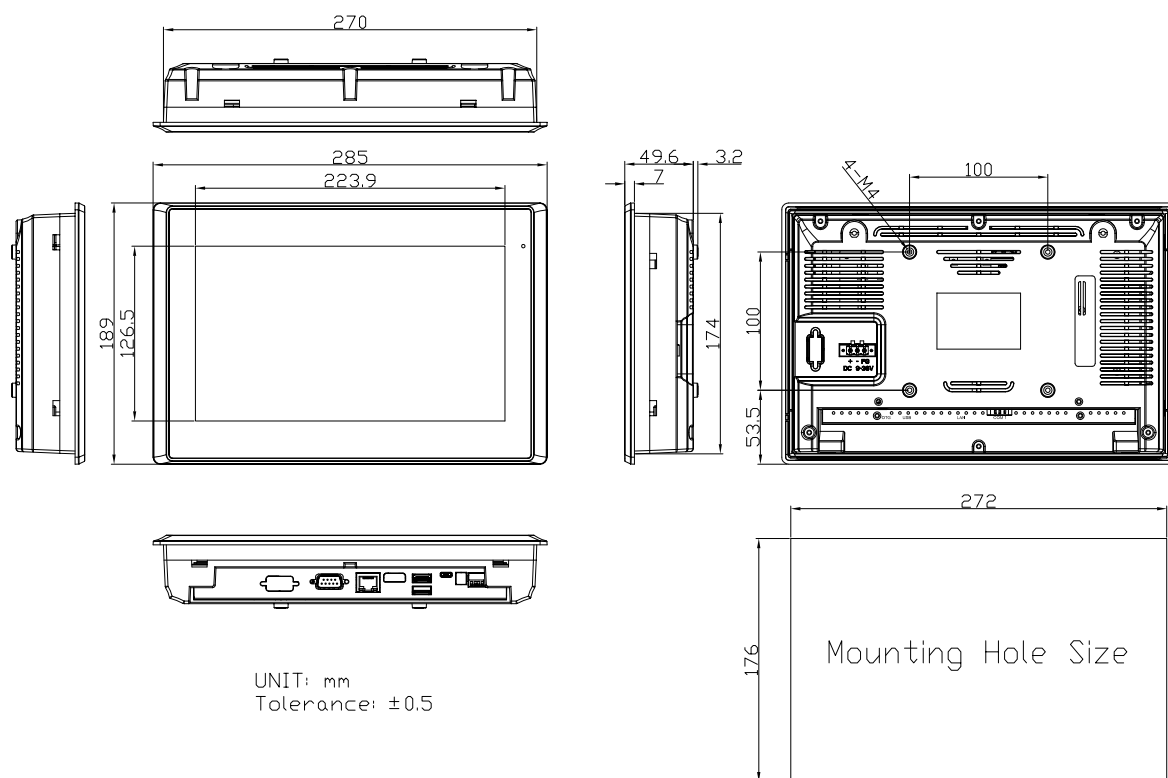
### ARMPAC-608(P)



unit:mm

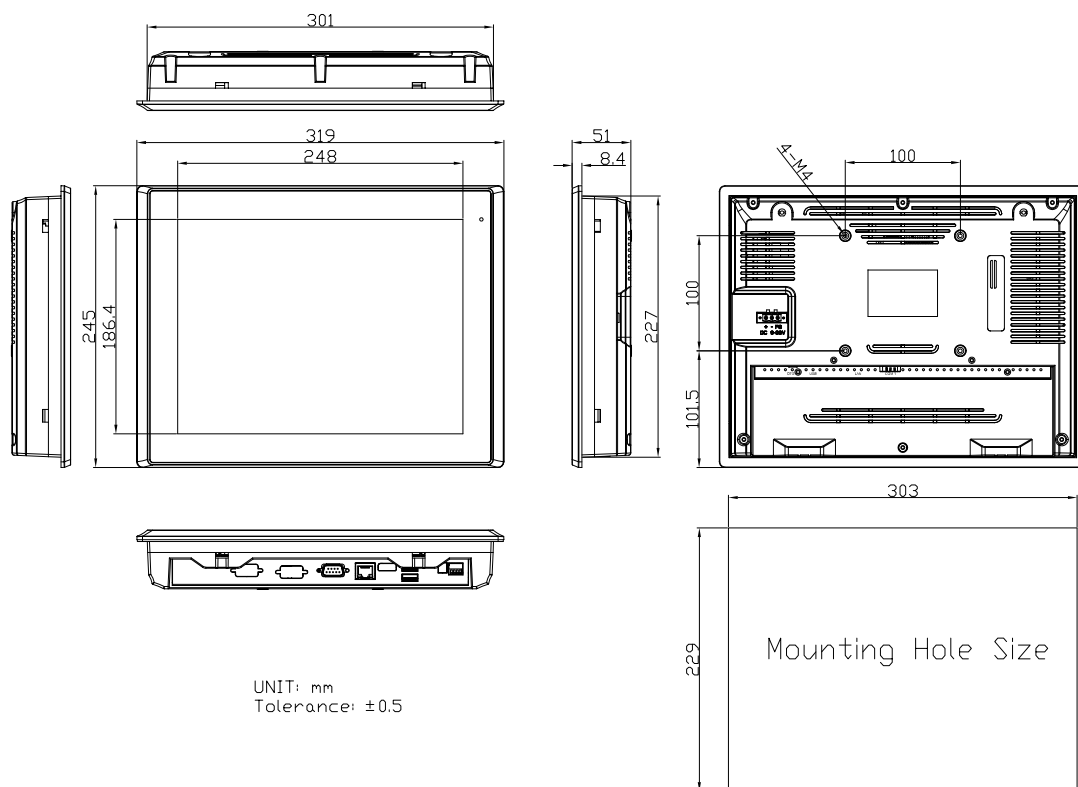


## ARMPAC-610(P)



unit:mm

## ARMPAC-612(P)

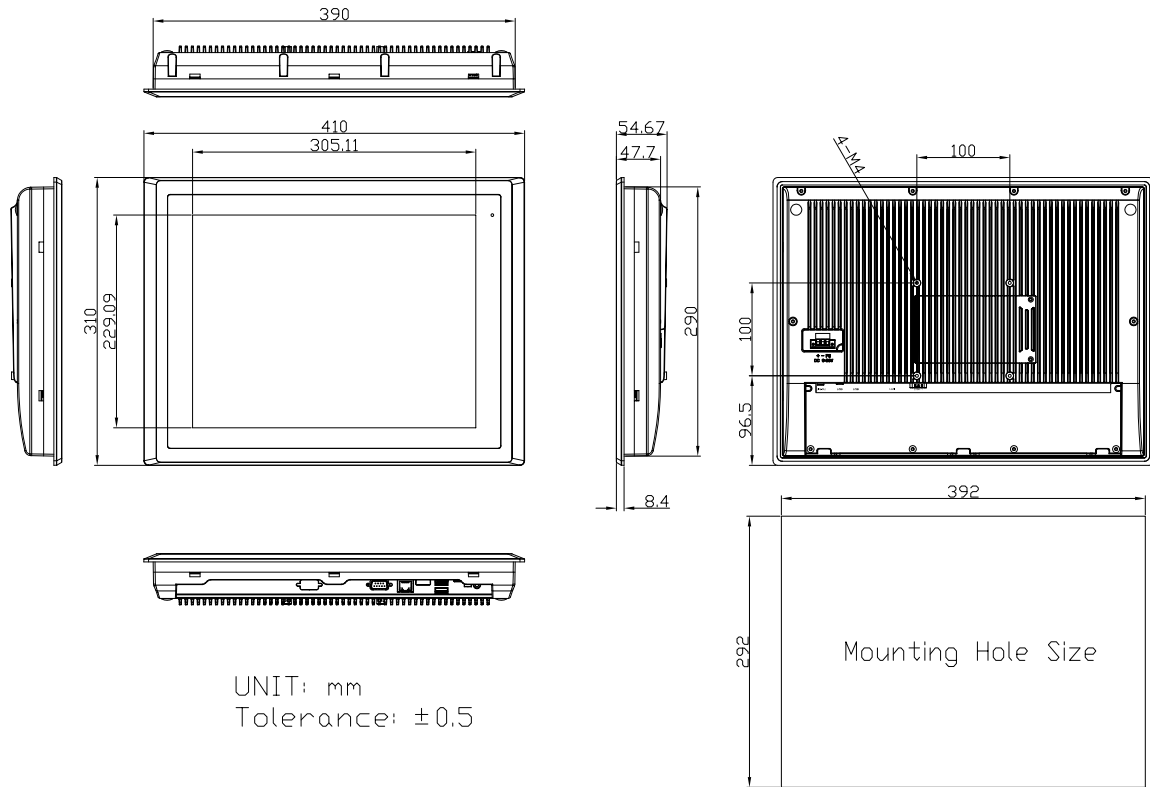


unit:mm

## ARMPAC-6XX(P) Series

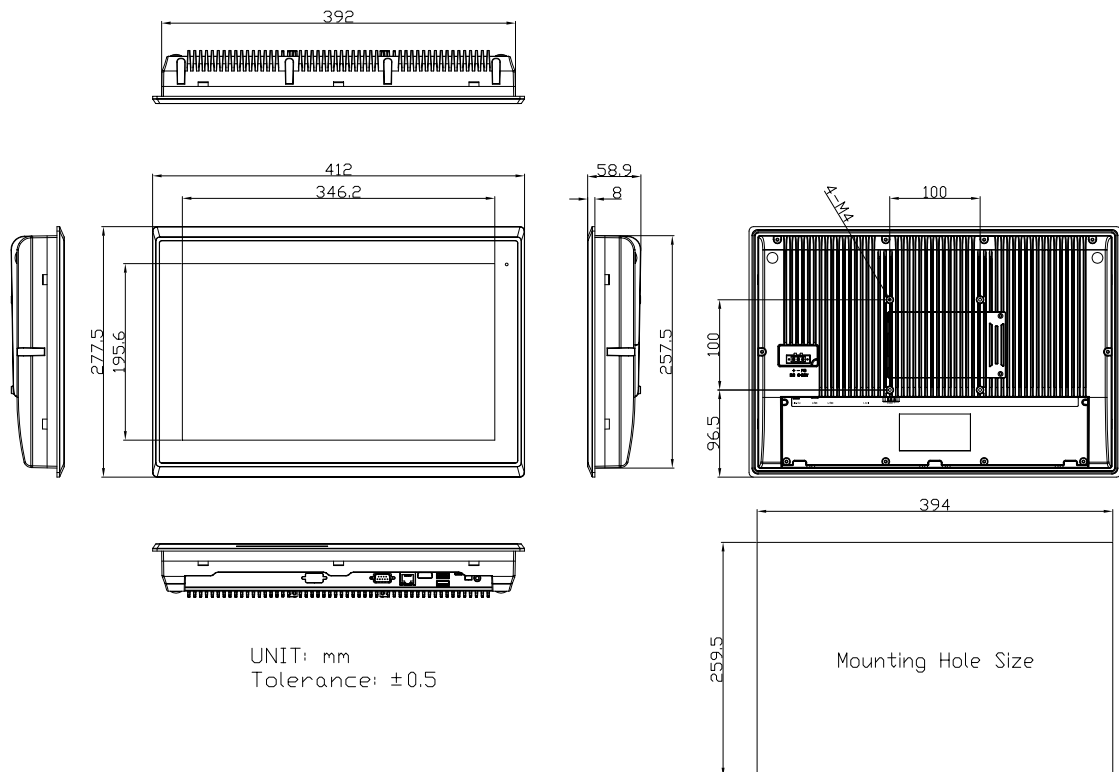
New Generation ARM Based HMI

### ARMPAC-615(P)



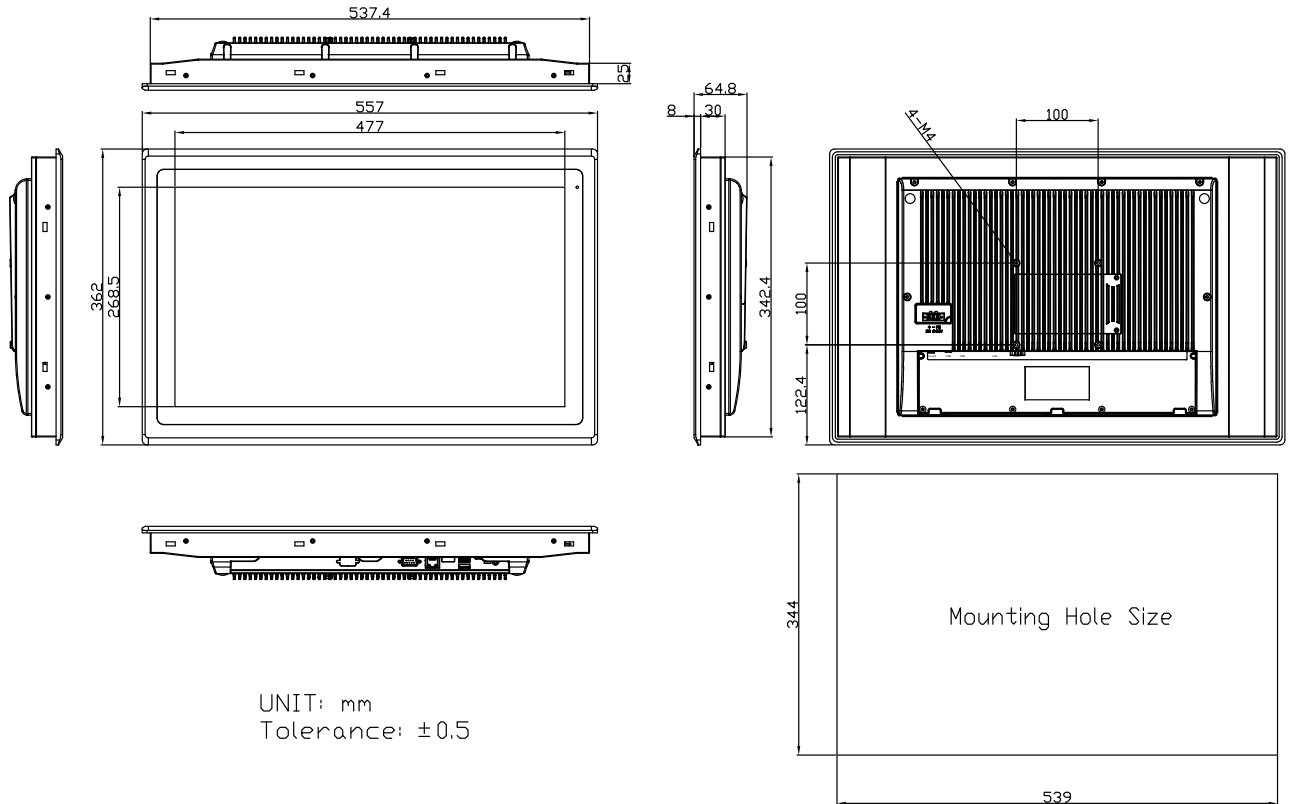
unit:mm

### ARMPAC-616(P)



unit:mm

## ARMPAC-621(P)



## Ordering information

| Model NO.          | Description                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARMPAC-605</b>  | 5.6" VGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.               |
| <b>ARMPAC-607</b>  | 7" WVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.                |
| <b>ARMPAC-607P</b> | 7" WVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.     |
| <b>ARMPAC-608</b>  | 8" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.                |
| <b>ARMPAC-608P</b> | 8" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.     |
| <b>ARMPAC-610</b>  | 10.1" WSVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.            |
| <b>ARMPAC-610P</b> | 10.1" WSVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis. |
| <b>ARMPAC-612</b>  | 12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.             |
| <b>ARMPAC-612P</b> | 12.1" SVGA fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.  |
| <b>ARMPAC-615</b>  | 15" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.                    |
| <b>ARMPAC-615P</b> | 15" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.         |
| <b>ARMPAC-616</b>  | 15.6" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.                  |
| <b>ARMPAC-616P</b> | 15.6" fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.       |
| <b>ARMPAC-621</b>  | 21.5" FHD fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Resistive touch, 9~36VDC input with adapter, plastic chassis.              |
| <b>ARMPAC-621P</b> | 21.5" FHD fanless HMI barebone with Freescale i.MX6 DualLite ARM Cortex A9,1GB DDR3 RAM,4GB eMMC, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.   |



# ARMPAC-5XX(P) Series

New Generation ARM Based HMI

Low Power Consumption ARM Based HMI

- Ti-AM3354, ARM Cortex-A8 @ 1.0GHz
- Fanless ARM Based HMI
- Onboard 512MB up to 1GB DDR3 DRAM
- Onboard 512MB NAND Flash
- Flat Front Panel Touch Screen



Ti-AM3354, ARM  
Cortex-A8 @ 1.0GHz



Onboard 512MB DDR3



Fanless ARM Based HMI



Flat Front Panel Touch  
Screen



Wide Range  
DC 9~36V Input



# ARMPAC-5XX(P) Series

New Generation ARM Based HMI



| Model Name                                  | ARMPAC-505(P)                                                          | ARMPAC-507(P)                                        | ARMPAC-508(P)      | ARMPAC-510(P)               | ARMPAC-512(P)  |            |
|---------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|--------------------|-----------------------------|----------------|------------|
| System                                      |                                                                        |                                                      |                    |                             |                |            |
| Processor                                   | Ti-AM3354, ARM Cortex-A8 @ 1.0GHz                                      |                                                      |                    |                             |                |            |
| System Chipset                              | NA                                                                     |                                                      |                    |                             |                |            |
| System Memory                               | Onboard 512MB DDR3 SDRAM                                               |                                                      |                    |                             |                |            |
| External I/O                                |                                                                        |                                                      |                    |                             |                |            |
| USB                                         | 2 x USB 2.0, USB type A                                                |                                                      |                    |                             |                |            |
| Serial/Parallel                             | 1 x RS-232/422/485 DB9 , default RS-232                                |                                                      |                    |                             |                |            |
| LAN                                         | 1 x 10/100MB LAN, RJ-45 (POE for option)                               |                                                      |                    |                             |                |            |
| Audio                                       | 1 x Line-out, 3.5mm Audio Jack                                         |                                                      |                    |                             |                |            |
| Power connector                             | 1 x 3-pin terminal block connector<br>1 x 2-pin Power switch connector |                                                      |                    |                             |                |            |
| Storage Space                               |                                                                        |                                                      |                    |                             |                |            |
| NAND Flash                                  | Onboard 512MB NAND Flash                                               |                                                      |                    |                             |                |            |
| Movable device                              | 1 x micro SD slot                                                      |                                                      |                    |                             |                |            |
| Expansion                                   |                                                                        |                                                      |                    |                             |                |            |
| Onboard expansion bus                       | 1 x mini-PCle slot(full size)                                          |                                                      |                    |                             |                |            |
| Display                                     |                                                                        |                                                      |                    |                             |                |            |
| Display type                                | 5.6" TFT-LCD                                                           | 7" TFT-LCD                                           | 8" TFT-LCD         | 10.1" TFT-LCD               | 12.1" TFT-LCD  |            |
| Max. resolution                             | 640 x 480                                                              | 800 x 480                                            | 800 x 600          | 1024 x 600                  | 800 x 600      | 1024 x 768 |
| Max. color                                  | 262K                                                                   | 262K                                                 | 16.2M              | 262K/16.7M                  | 262K/16.2M     | 262K       |
| Luminance(cd/m²)                            | 350                                                                    | 350                                                  | 450                | 250                         | 450            | 500        |
| View angle(H°/V°)                           | 140/120                                                                | 120/140                                              | 140/120            | 140/120                     | 178/178        | 160/140    |
| Backlight lifetime(hrs)                     | 20000                                                                  | 50000                                                | 40000              | 15000                       | 50000          | 30000      |
| Touch Screen                                |                                                                        |                                                      |                    |                             |                |            |
| Type                                        | Resistive Touch                                                        | Resistive Touch<br>Projected Capacitive(For P model) |                    |                             |                |            |
| Interface                                   | ADC                                                                    | ADC / USB(For P model)                               |                    |                             |                |            |
| Light transmission(%)                       | Resistive Touch : 80%<br>Projected Capacitive : 90%                    |                                                      |                    |                             |                |            |
| Power                                       |                                                                        |                                                      |                    |                             |                |            |
| Power input                                 | DC 9~36V                                                               |                                                      |                    |                             |                |            |
| Power Consumption (TYP.)                    | 9W                                                                     | 7.5W                                                 | 7.7W               | 7.8W                        | 9.2W           |            |
| Mechanical                                  |                                                                        |                                                      |                    |                             |                |            |
| Construction                                | Plastic Front Bezel and Chassis                                        |                                                      |                    |                             |                |            |
| IP rating                                   | IP65 Compliant Front Bezel                                             |                                                      |                    |                             |                |            |
| Mounting                                    | Panel Mount, VESA 75 x 75                                              |                                                      |                    | Panel Mount, VESA 100 x 100 |                |            |
| Dimension(mm)                               | 204 x 150 x 42.5                                                       | 204 x 150 x 42.5                                     | 231.1 x 176.1 x 45 | 285 x 189 x 49.6            | 319 x 245 x 51 |            |
| Net weight(Kg)                              | 0.8                                                                    | 0.9                                                  | 0.9                | 1.3                         | 2.0            |            |
| Environment                                 |                                                                        |                                                      |                    |                             |                |            |
| Operating temperature(°C)                   | 0~50/-20~60 for option                                                 |                                                      |                    |                             |                |            |
| Storage temperature(°C)                     | -30~70                                                                 |                                                      |                    |                             |                |            |
| Humidity                                    | 10 to 90% @ 40°C, non- condensing                                      |                                                      |                    |                             |                |            |
| Certification                               | CE/FCC Class A/UL                                                      |                                                      |                    |                             |                |            |
| Operating System Support                    |                                                                        |                                                      |                    |                             |                |            |
| Linux 4.4.12+Web Browser (Default)<br>WCE 7 |                                                                        |                                                      |                    |                             |                |            |

Stainless Steel Panel PC

Industrial Panel PC

HMI

Embedded Box PC

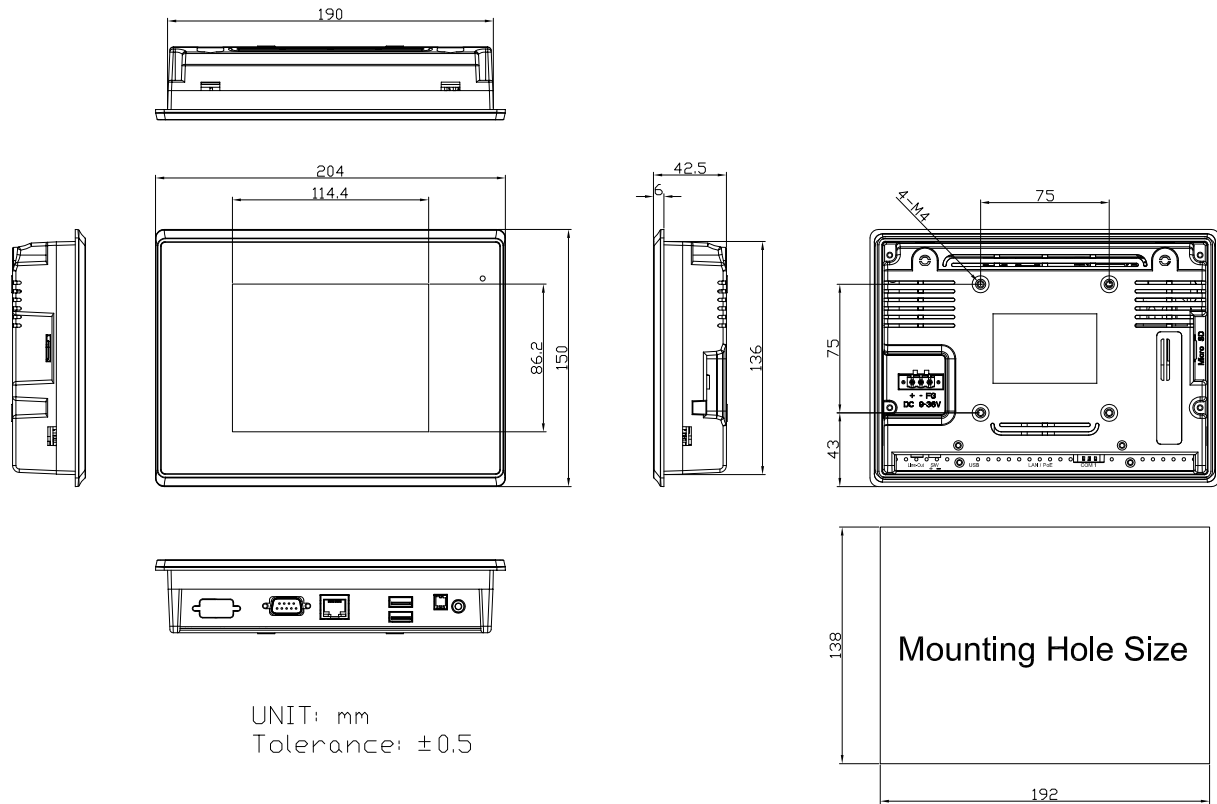
Display



## ARMPAC-5XX(P) Series

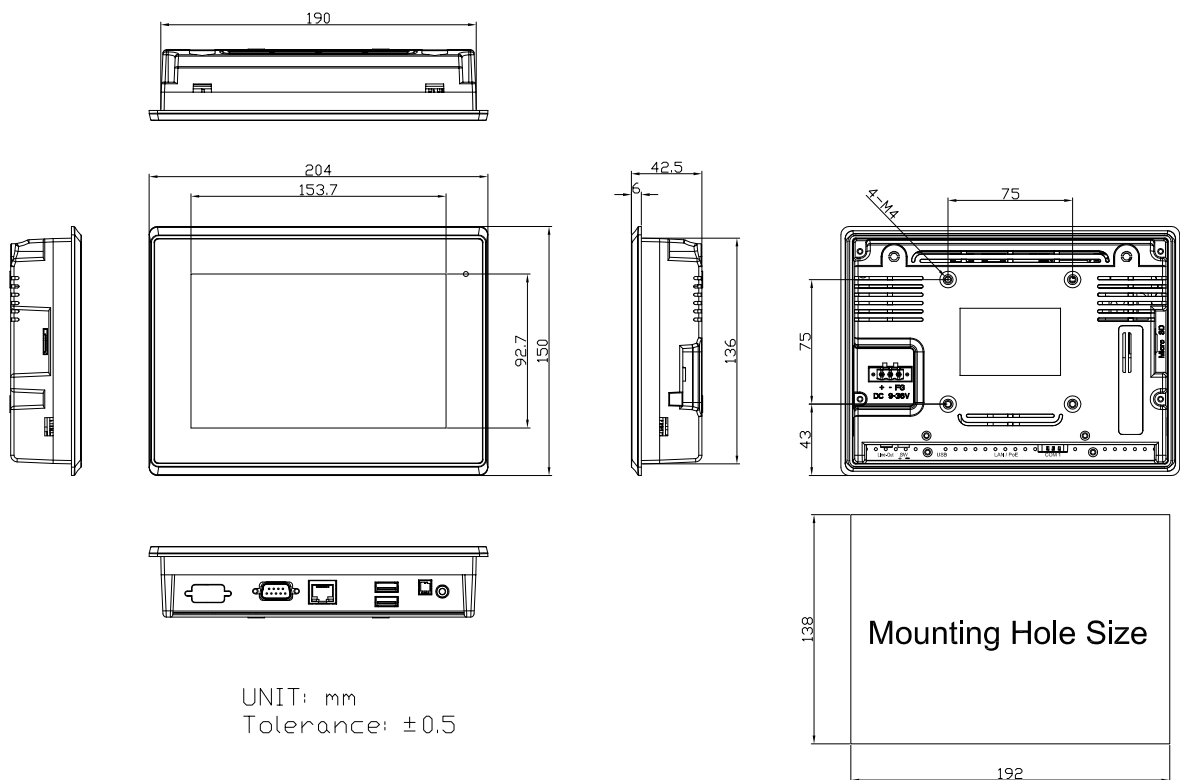
New Generation ARM Based HMI

### ARMPAC-505



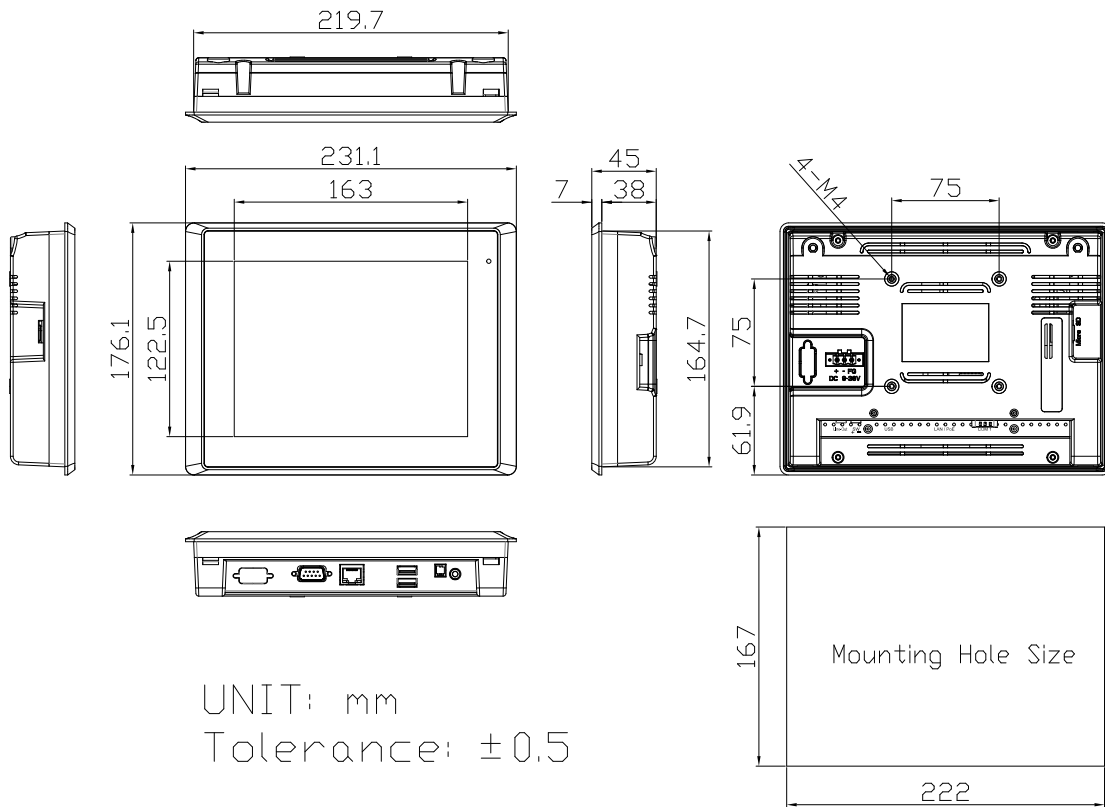
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### ARMPAC-507(P)



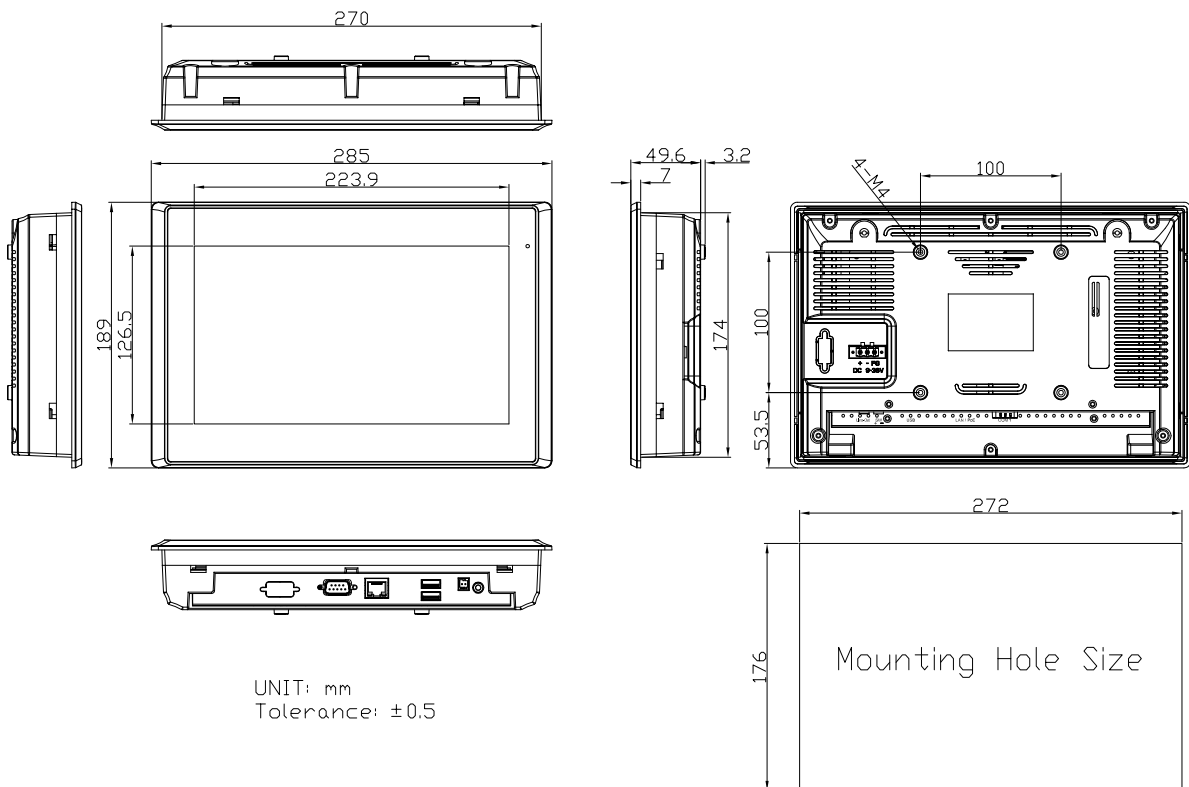
unit:mm

## ARMPAC-508(P)



unit:mm

## ARMPAC-510(P)

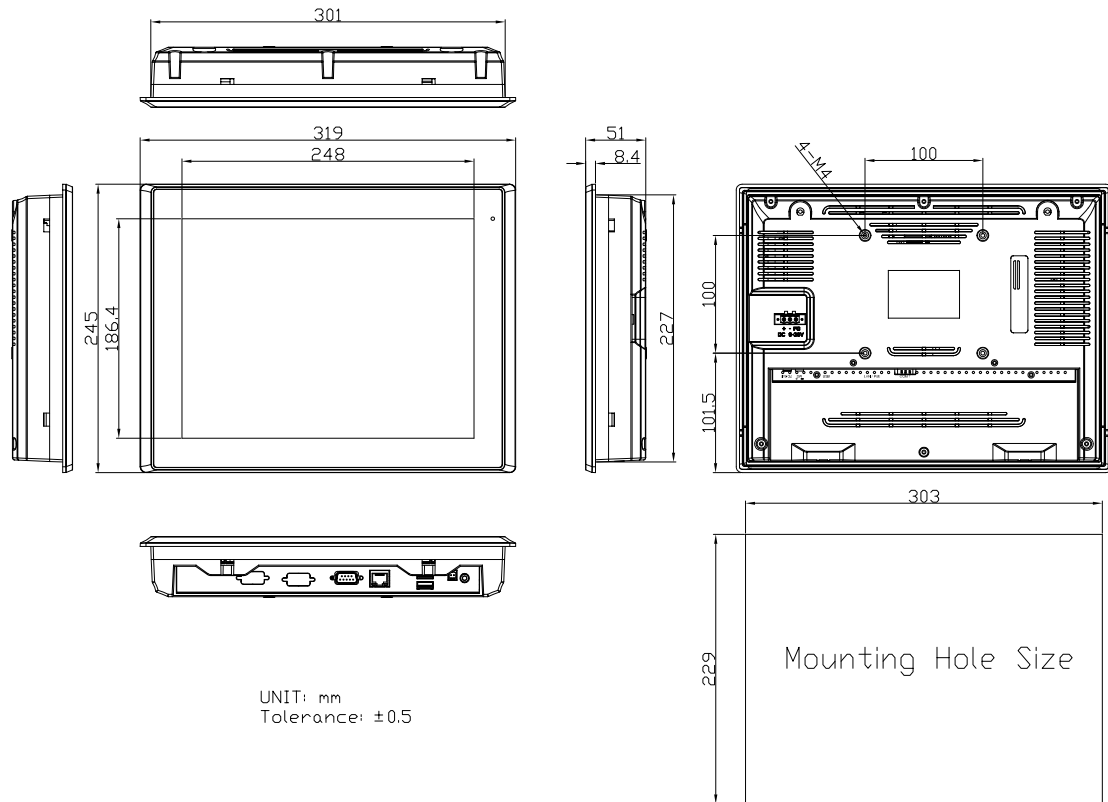


unit:mm

# ARMPAC-5XX(P) Series

New Generation ARM Based HMI

## ARMPAC-512(P)



unit:mm

## Ordering information

| Model NO.          | Description                                                                                                                                                                           |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARMPAC-505</b>  | 5.6" VGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.               |
| <b>ARMPAC-507</b>  | 7" WVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.                |
| <b>ARMPAC-507P</b> | 7" WVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.     |
| <b>ARMPAC-508</b>  | 8" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.                |
| <b>ARMPAC-508P</b> | 8" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.     |
| <b>ARMPAC-510</b>  | 10.1" WSVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.            |
| <b>ARMPAC-510P</b> | 10.1" WSVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis. |
| <b>ARMPAC-512</b>  | 12.1" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Resistive touch, 9~36VDC input with adapter, plastic chassis.             |
| <b>ARMPAC-512P</b> | 12.1" SVGA fanless HMI barebone with TI-AM3354 ARM® Cortex™ A8 processor CPU,512MB DDR3 RAM,512 NAND flash, Projected capacitive touch, 9~36VDC input with adapter, plastic chassis.  |



FABS-9XXAP/R(H)  
FABS-8XXP/R(H)



# FABS Series



Food Safety Standard HMI  
Perfect Solution to Hygienic Excellence

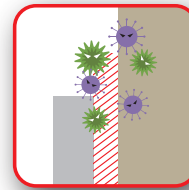


# Build Up the Standard of Food and Beverage Industry

APLEX FABS series is the solution for strict sanitary environment. It is capable of preventing food or other materials from contaminating with sand, dirt, mold or bacteria in the manufacturing process. Also, we devote ourselves to achieve food safety standard with EN 1672-2 certification. APLEX new generation food safety design HMI focuses on optimizing food & beverage, pharmaceutical & consumer packed goods processing operation.

## SUS 304 /316 Stainless Steel front bezel

The SUS 304 /316 stainless steel front bezel presents the great resistance to corrosion, cleaner, and chemical agent.



## IP66/69K Water-proof

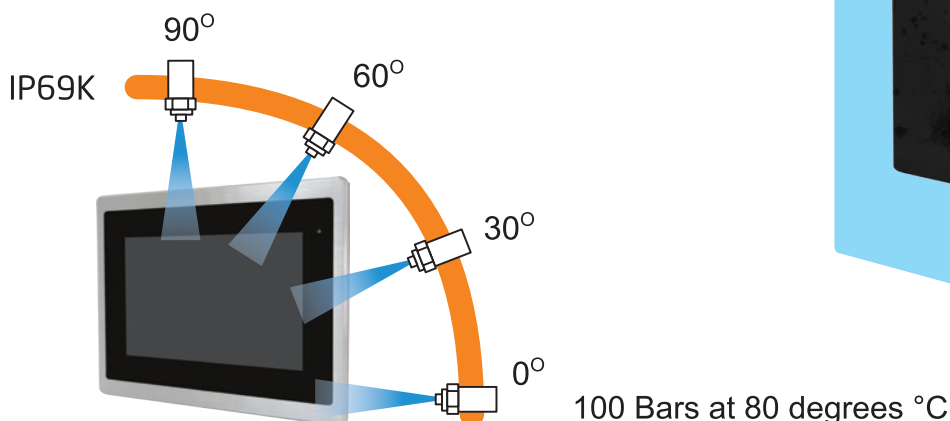
With IP66/69K rated water and dust proof, you can maintain it easily by cleaning with high pressure and temperature water.



- Full-fledged protection from dust
- Protected against close-range high pressure, high temperature sprays down



- Full-fledged protection from dust
- Protected against multi-directional high-pressure water jets



## Other Products



## EN 1672-2 Certification

FABS Series comply with the food safety with international food safety grade requirement, EN 1672-2 certification, and DIN 42115 Part 2 for the durability of chemical substances and the sealing material meet FDA 21CFR 177.2600.

*Note: Resistive Touch is without EN 1672-2 Certification  
FABS-9XXAP(H) is Compliant with EN 1672-2 Certification*





With the perfect chamfered edge, the water or detergent directly flows down the front panel.



APLEX Food  
Safety Grade HMI  
FABS Series



## High Productivity

FABS 9A series offers excellent computing ability and is powered by Intel 6th Core i3/i5 processor. Also, the great graphic experience helps display complex visual information.



## Internet Connectivity

- Optional GPS Module
- Optional Wi-Fi/BT and 4G/LTE Module



## TB-528 Expansion I/O Boards

TB-528 Series I/O boards provide various I/O selections. It supports to different industrial applications.

| Model     | TB-528U4 | TB-528U4ME1 | TB-528C1U2 | TB-528C1U2P1 | TB-528C2 | TB-528C2ME1 | TB-528C2I |
|-----------|----------|-------------|------------|--------------|----------|-------------|-----------|
| FABS-8XX  | •        | •           | •          | •            | •        | •           | •         |
| FABS-9XXA | •        | •           | •          | •            | •        | •           | •         |

| Model     | TB-528CAN2 | TB-528E1U2 | TB-528NE1U2POE                                                                                                                                | TB-528E1U2POE | TB-528E1U2UPOE |
|-----------|------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| FABS-8XX  | •          | •          | FABS-810: TB-528NE1U2POE, TB-528E1U2POE<br>FABS-812: TB-528NE1U2POE, TB-528E1U2POE, TB-528E1U2UPOE<br>FABS-815: TB-528E1U2POE, TB-528E1U2UPOE |               |                |
| FABS-9XXA | •          | •          | FABS-815-821/912A/915A/916A: TB-528E1U2UPOE                                                                                                   |               |                |

\* System is only allowed to build in either I/O board TB-528 series or backup battery

\* The above listed product does not contain: FABS-807P/R(H)

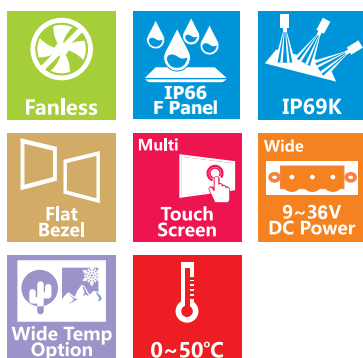


# FABS-9XXA Series

Food Safety Grade and Hygienic Design HMI

Compact Size Intel 6th Gen. Core HMI

- Intel 6th Gen. Core i3/i5 Processors
- 1 x DDR4 SO-DIMM Socket
- SUS304 Stainless steel (Option SUS316)
- Front bezel IP66/IP69K
- 9~36V DC wide-ranging power input



Comply with EN-1672-2  
Food Safety Grade  
Standard



Wide Range  
DC 9~36V Power Input



Flat Front Panel Design  
Front Bezel IP66/IP69K



SUS304 Stainless Steel  
(Option SUS316)



Easily Accessible  
Storage Design



# FABS-9XXAP/R(H) Series

Food Safety Grade and Hygienic Design HMI



| Model Name                |  | FABS-912AP/R(H)                                                                                                     |       |            |      | FABS-915AP/R(H)      |       |            |      | FABS-916AP/R(H)      |      |             |       | FABS-917AP/R(H)      |       |         |       |
|---------------------------|--|---------------------------------------------------------------------------------------------------------------------|-------|------------|------|----------------------|-------|------------|------|----------------------|------|-------------|-------|----------------------|-------|---------|-------|
| System                    |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Processor                 |  | Onboard 6th Gen Intel Core i3-6100U Processor(3M Cache,2.30 GHz) / Intel Core i5-6300U Processor(3M Cache,2.30 GHz) |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| System Chipset            |  | SoC                                                                                                                 |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| System Memory             |  | 1 x DDR4 SO-DIMM Socket                                                                                             |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| External I/O              |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| USB                       |  | 2 x USB 3.0 type A                                                                                                  |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Serial/Parallel           |  | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)                                              |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| LAN                       |  | 2 x GbE LAN RJ-45                                                                                                   |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Audio                     |  | 1 x Line-out                                                                                                        |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Power connector           |  | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                              |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Storage Space             |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| HDD                       |  | 1 x 2.5" SATA HDD space (Easily Accessible)                                                                         |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Expansion                 |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Onboard expansion bus     |  | 1 x Mini-PCIe (full size)                                                                                           |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Display                   |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Display type              |  | 12.1" TFT-LCD                                                                                                       |       |            |      | 15" TFT-LCD          |       |            |      | 15.6" TFT-LCD        |      |             |       | 17" TFT-LCD          |       |         |       |
| Max. resolution           |  | 800 x 600                                                                                                           |       | 1024 x 768 |      | 1024 x 768           |       | 1366 x 768 |      | 1920 x 1080          |      | 1280 x 1024 |       |                      |       |         |       |
| Max. color                |  | 16.2M                                                                                                               |       |            |      | 16.2M                |       | 16.7M      |      | 16.7M                |      | 16.2M       |       | 16.7M                |       | 16.2M   |       |
| Luminance(cd/m²)          |  | 450                                                                                                                 | 1000  | 500        | 1000 | 300                  | 1000  | 400        | 1000 | 450                  | 1000 | 350         | 1000  | 350                  | 1000  | 350     | 1000  |
| View angle(H°/V°)         |  | 178/178                                                                                                             |       |            |      | 176/176              |       | 170/160    |      | 160/160              |      | 170/170     |       | 170/160              |       | 140/140 |       |
| Contrast                  |  | 1500:1                                                                                                              | 700:1 | 1000:1     |      | 1000:1               | 800:1 | 500:1      |      | 800:1                |      | 1000:1      | 800:1 | 1000:1               | 800:1 | 1000:1  | 800:1 |
| Backlight lifetime(hrs)   |  | 50000                                                                                                               |       | 30000      |      | 70000                |       | 50000      |      | 50000                |      | 30000       |       | 50000                |       | 50000   |       |
| Touch Screen              |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Type                      |  | Projected capacitive/Resistive Touch                                                                                |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Interface                 |  | USB                                                                                                                 |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Light transmission(%)     |  | 90% for PCT; 80% for Resistive touch                                                                                |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Power                     |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Power input               |  | DC 9~36V                                                                                                            |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Power Consumption (TYP.)  |  | FABS-912AP: 48W(Max)                                                                                                |       |            |      | FABS-915AP: 48W(Max) |       |            |      | FABS-916AP: 52W(Max) |      |             |       | FABS-917AP:54W(Max)  |       |         |       |
| Mechanical                |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Construction              |  | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (option)<br>Aluminum back cover        |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| IP rating                 |  | IP66/IP69K compliant front bezel                                                                                    |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Mounting                  |  | Panel Mount, VESA 100 x 100                                                                                         |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Dimension(mm)             |  | 331 x 257 x 52                                                                                                      |       |            |      | 422 x 322 x 54.1     |       |            |      | 424 x 289.5 x 58.1   |      |             |       | 449.4 x 358.4 x 63.8 |       |         |       |
| Net weight(Kg)            |  | 3.4                                                                                                                 |       |            |      | 5.2                  |       |            |      | 5.4                  |      |             |       | 6.31                 |       |         |       |
| Environment               |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Operating temperature(°C) |  | 0~50°C/-20~60°C(option)                                                                                             |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Storage temperature(°C)   |  | -30~70°C                                                                                                            |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Humidity                  |  | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                 |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Certification             |  | CE / FCC Class A<br>EN 1672-2 compliant for P model(optional)                                                       |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Operating System Support  |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |
| Windows 10 IoT            |  |                                                                                                                     |       |            |      |                      |       |            |      |                      |      |             |       |                      |       |         |       |

Stainless Steel Panel PC

Industrial Panel PC

HMI

Embedded Box PC

Display

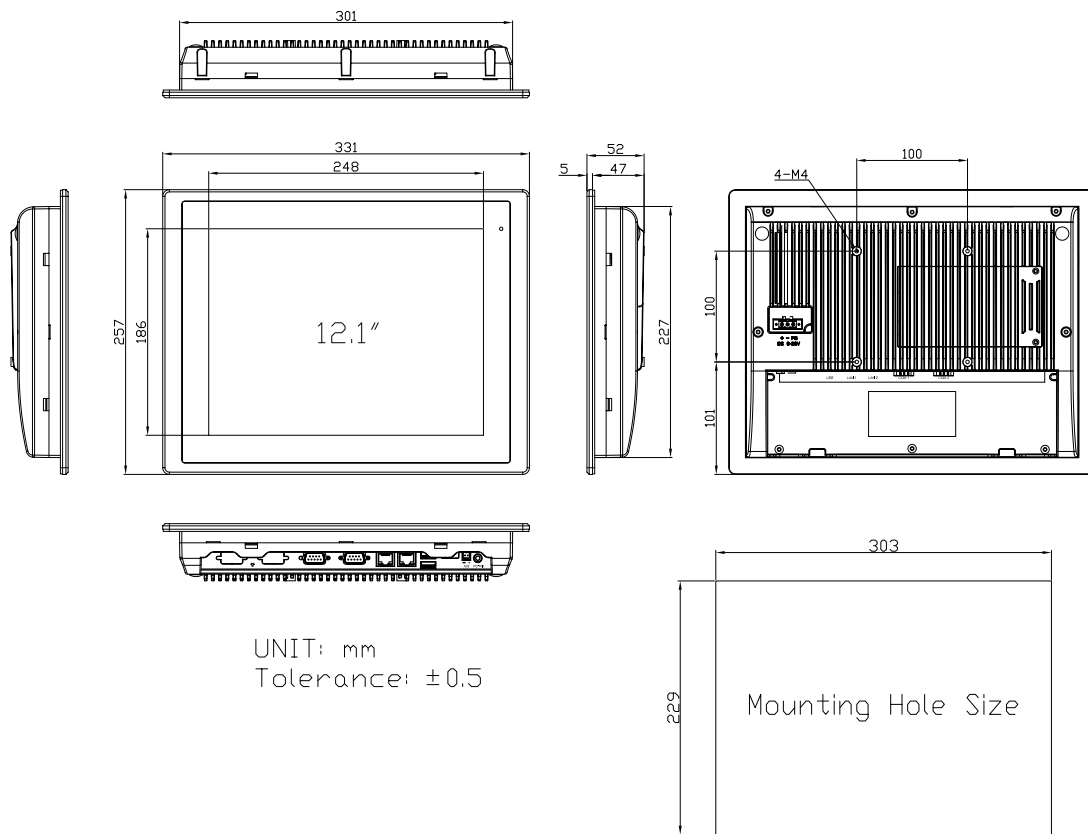
# FABS-9XXAP/R(H) Series

Food Safety Grade and Hygienic Design HMI



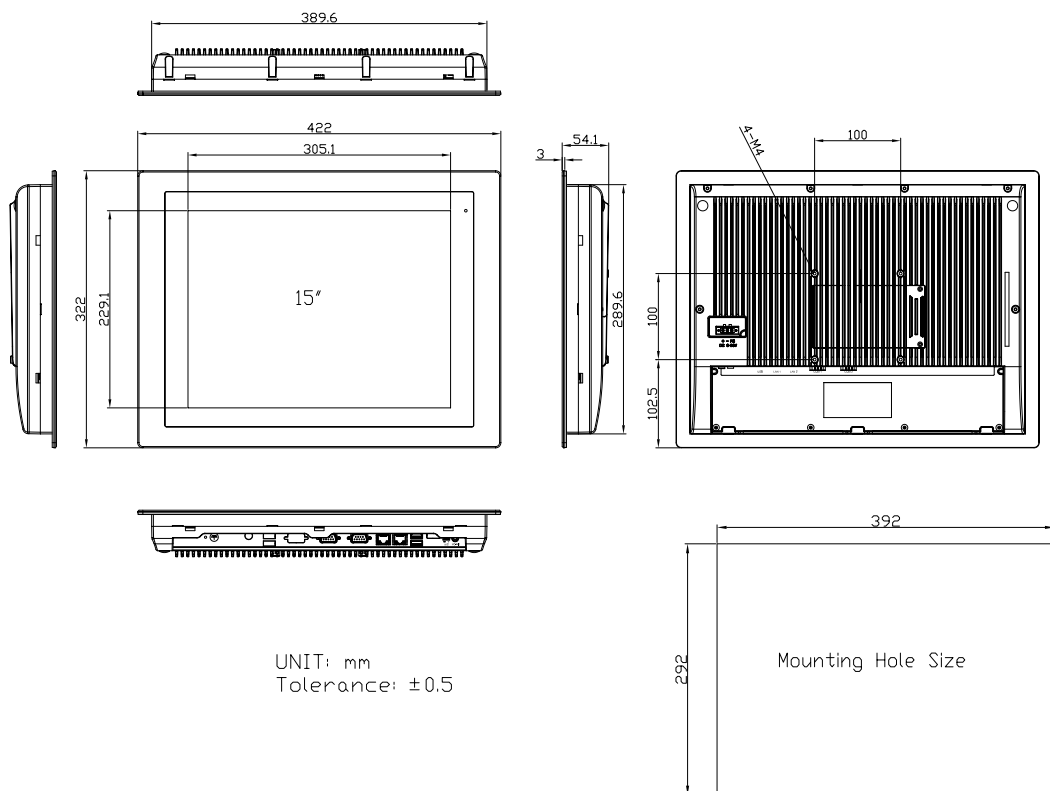
| Model Name                | FABS-918AP/R(H)                                                                                                     |      |             |      | FABS-919AP/R(H)      |      |  |     | FABS-921AP/R(H)      |  |  |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|------|-------------|------|----------------------|------|--|-----|----------------------|--|--|--|
| System                    |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Processor                 | Onboard 6th Gen Intel Core i3-6100U Processor(3M Cache,2.30 GHz) / Intel Core i5-6300U Processor(3M Cache,2.30 GHz) |      |             |      |                      |      |  |     |                      |  |  |  |
| System Chipset            | SoC                                                                                                                 |      |             |      |                      |      |  |     |                      |  |  |  |
| System Memory             | 1 x DDR4 SO-DIMM Socket                                                                                             |      |             |      |                      |      |  |     |                      |  |  |  |
| External I/O              |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| USB                       | 2 x USB 3.0 type A                                                                                                  |      |             |      |                      |      |  |     |                      |  |  |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)                                              |      |             |      |                      |      |  |     |                      |  |  |  |
| LAN                       | 2 x GbE LAN RJ-45                                                                                                   |      |             |      |                      |      |  |     |                      |  |  |  |
| Audio                     | 1 x Line-out                                                                                                        |      |             |      |                      |      |  |     |                      |  |  |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                              |      |             |      |                      |      |  |     |                      |  |  |  |
| Storage Space             |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| HDD                       | 1 x 2.5" SATA HDD space (Easily Accessible)                                                                         |      |             |      |                      |      |  |     |                      |  |  |  |
| Expansion                 |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Onboard expansion bus     | 1 x Mini-PCle (full size)                                                                                           |      |             |      |                      |      |  |     |                      |  |  |  |
| Display                   |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Display type              | 18.5" TFT-LCD                                                                                                       |      |             |      | 19" TFT-LCD          |      |  |     | 21.5" TFT-LCD        |  |  |  |
| Max. resolution           | 1366 x 768                                                                                                          |      | 1920 x 1080 |      | 1280 x 1024          |      |  |     | 1920 x 1080          |  |  |  |
| Max. color                | 16.7M                                                                                                               |      |             |      | 16.7M                |      |  |     | 16.7M                |  |  |  |
| Luminance(cd/m²)          | 300                                                                                                                 | 1000 | 350         | 1000 | 350                  | 1000 |  | 250 | 1000                 |  |  |  |
| View angle(H°/V°)         | 170/160                                                                                                             |      | 178/178     |      | 170/160              |      |  |     | 178/178              |  |  |  |
| Contrast                  | 1000:1                                                                                                              |      |             |      | 1000:1               |      |  |     | 1000:1               |  |  |  |
| Backlight lifetime(hrs)   | 50000                                                                                                               |      | 40000       |      | 50000                |      |  |     | 50000                |  |  |  |
| Touch Screen              |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Type                      | Projected capacitive/Resistive Touch                                                                                |      |             |      |                      |      |  |     |                      |  |  |  |
| Interface                 | USB                                                                                                                 |      |             |      |                      |      |  |     |                      |  |  |  |
| Light transmission(%)     | 90% for PCT; 80% for Resistive touch                                                                                |      |             |      |                      |      |  |     |                      |  |  |  |
| Power                     |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Power input               | DC 9~36V                                                                                                            |      |             |      |                      |      |  |     |                      |  |  |  |
| Power Consumption (TYP.)  | FABS-918AP: 56W(Max)                                                                                                |      |             |      | FABS-919AP: 56W(Max) |      |  |     | FABS-921AP: 64W(Max) |  |  |  |
| Mechanical                |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Construction              | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (option)<br>Aluminum back cover        |      |             |      |                      |      |  |     |                      |  |  |  |
| IP rating                 | IP66/IP69K compliant front bezel                                                                                    |      |             |      |                      |      |  |     |                      |  |  |  |
| Mounting                  | Panel Mount, VESA 100 x 100                                                                                         |      |             |      |                      |      |  |     |                      |  |  |  |
| Dimension(mm)             | 510x325x63.7                                                                                                        |      |             |      | 485 x 398 x 63.8     |      |  |     | 573.8 x 378.8 x 59.8 |  |  |  |
| Net weight(Kg)            | 6.9                                                                                                                 |      |             |      | 7.28                 |      |  |     | 7.88                 |  |  |  |
| Environment               |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Operating temperature(°C) | 0~50°C/-20~60°C(option)                                                                                             |      |             |      |                      |      |  |     |                      |  |  |  |
| Storage temperature(°C)   | -30~70°C                                                                                                            |      |             |      |                      |      |  |     |                      |  |  |  |
| Humidity                  | 10 ~ 90% RH @ 40 °C, non-condensing                                                                                 |      |             |      |                      |      |  |     |                      |  |  |  |
| Certification             | CE / FCC Class A<br>EN 1672-2 compliant for P model(optional)                                                       |      |             |      |                      |      |  |     |                      |  |  |  |
| Operating System Support  |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |
| Windows 10 IoT            |                                                                                                                     |      |             |      |                      |      |  |     |                      |  |  |  |

## FABS-912AR/P/G(H)



unit:mm

## FABS-915AR/P/G(H)



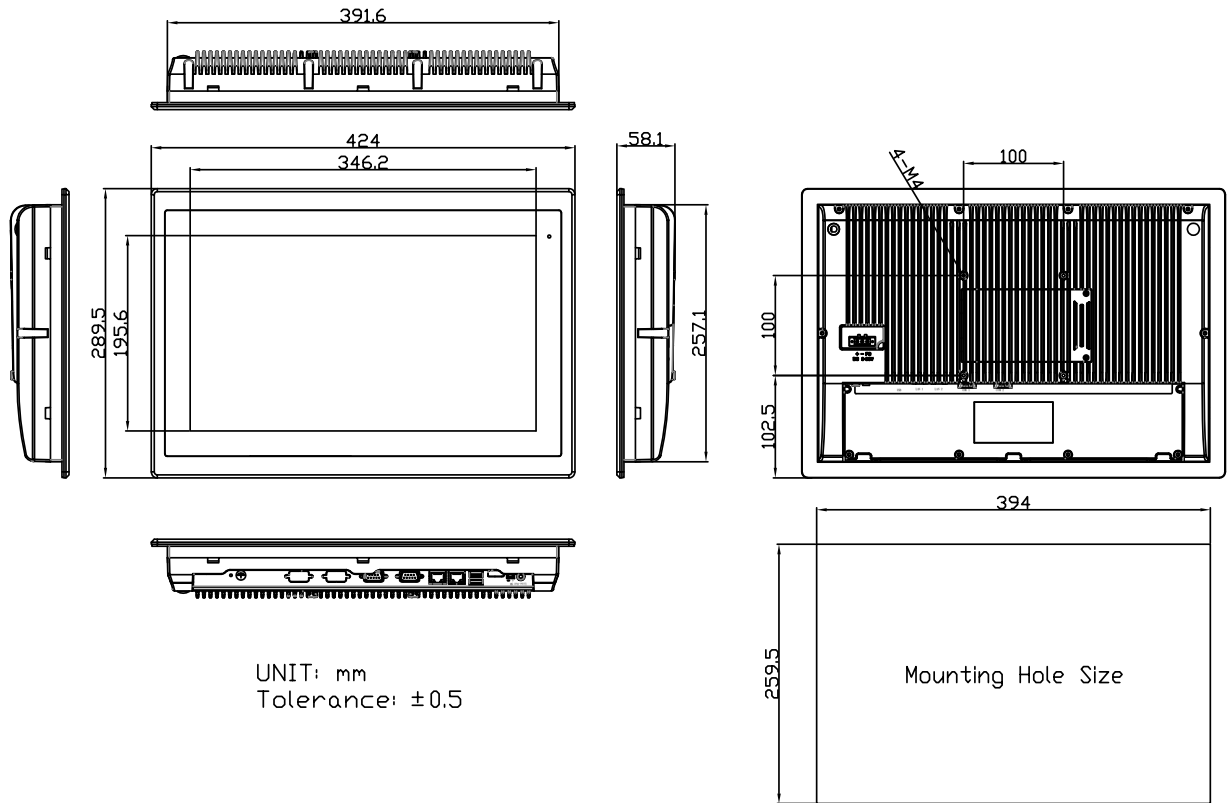
unit:mm



## FABS-9XXAP/R(H) Series

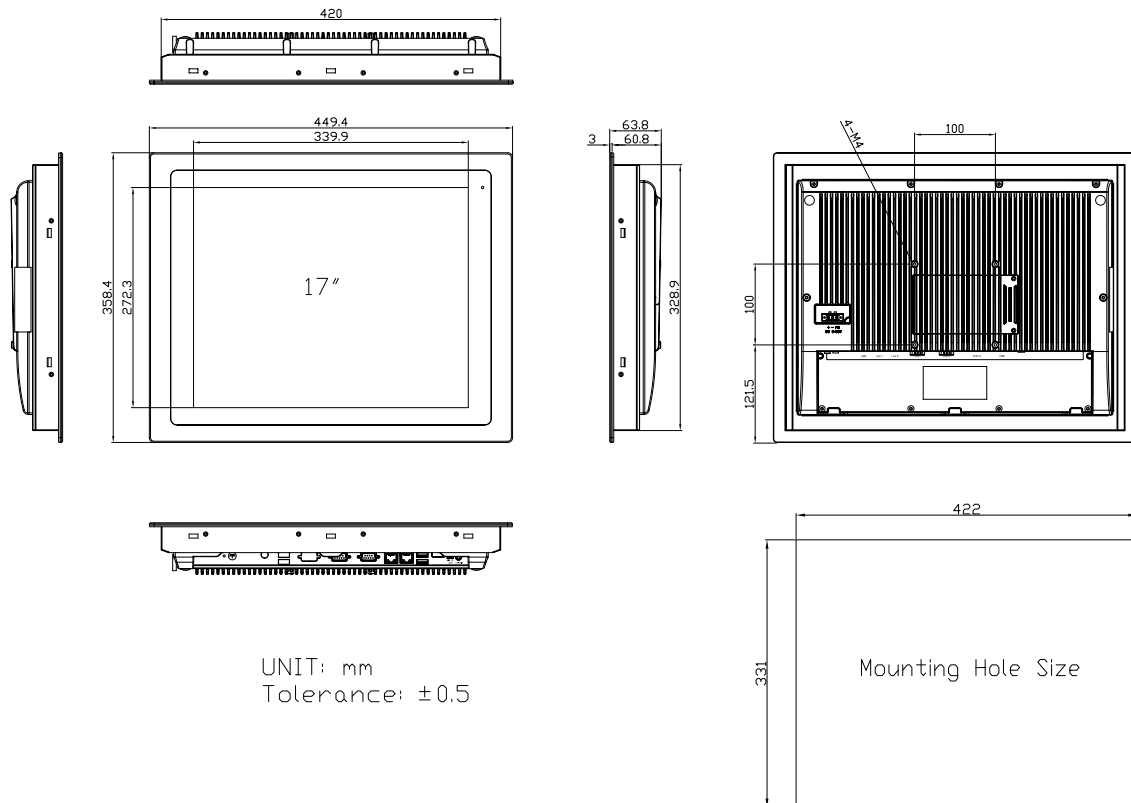
Food Safety Grade and Hygienic Design HMI

### FABS-916AR/P/G(H)



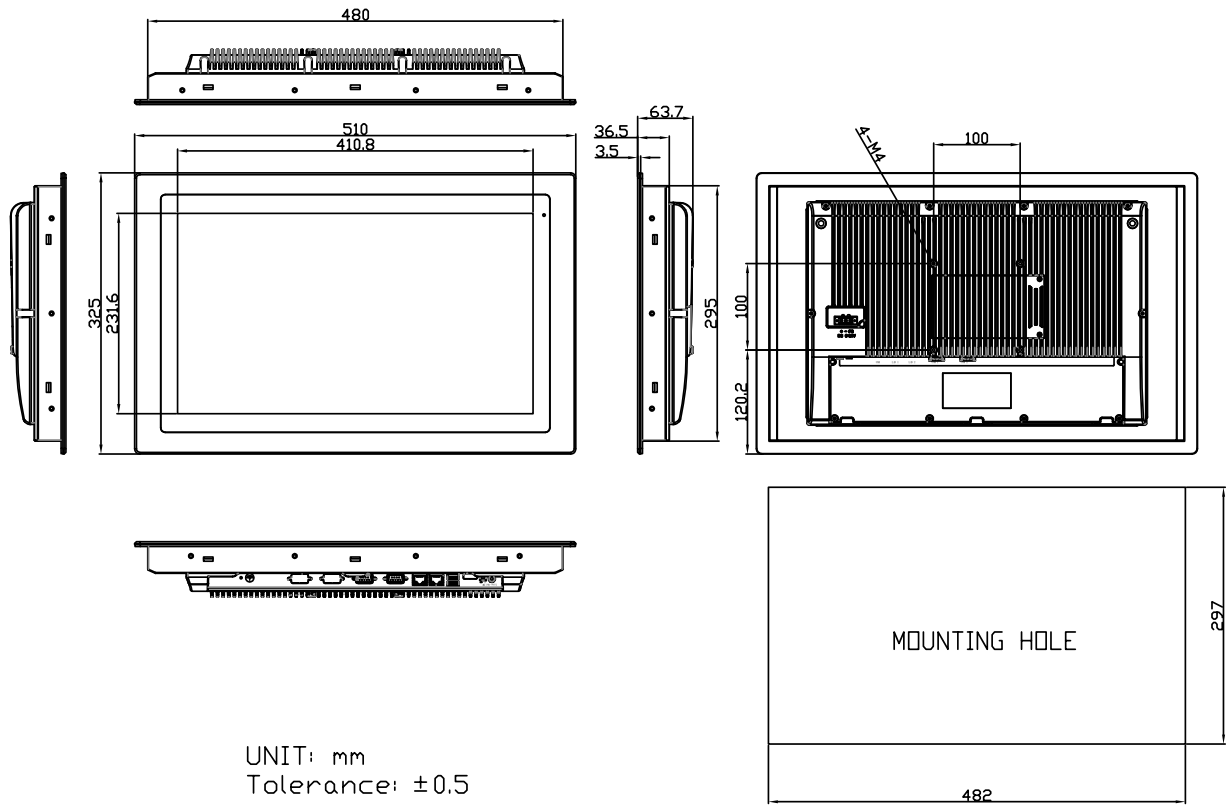
unit:mm

### FABS-917AR/P/G(H)



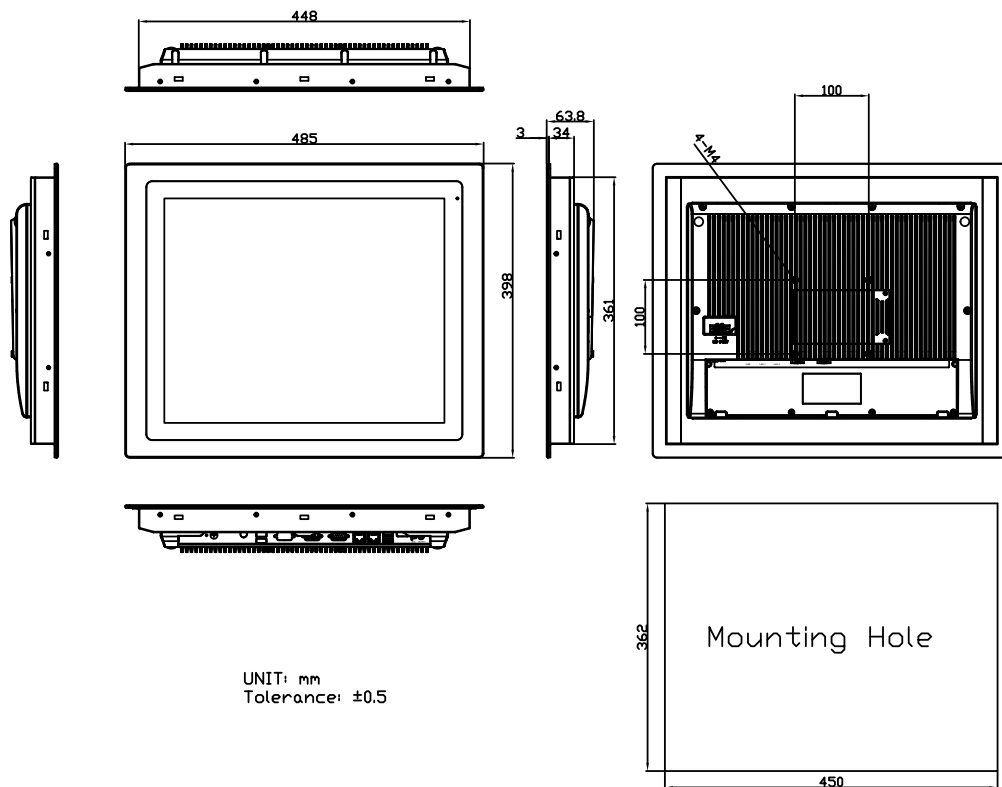
unit:mm

## FABS-918AR/P/G(H)



unit:mm

## FABS-919AR/P/G(H)

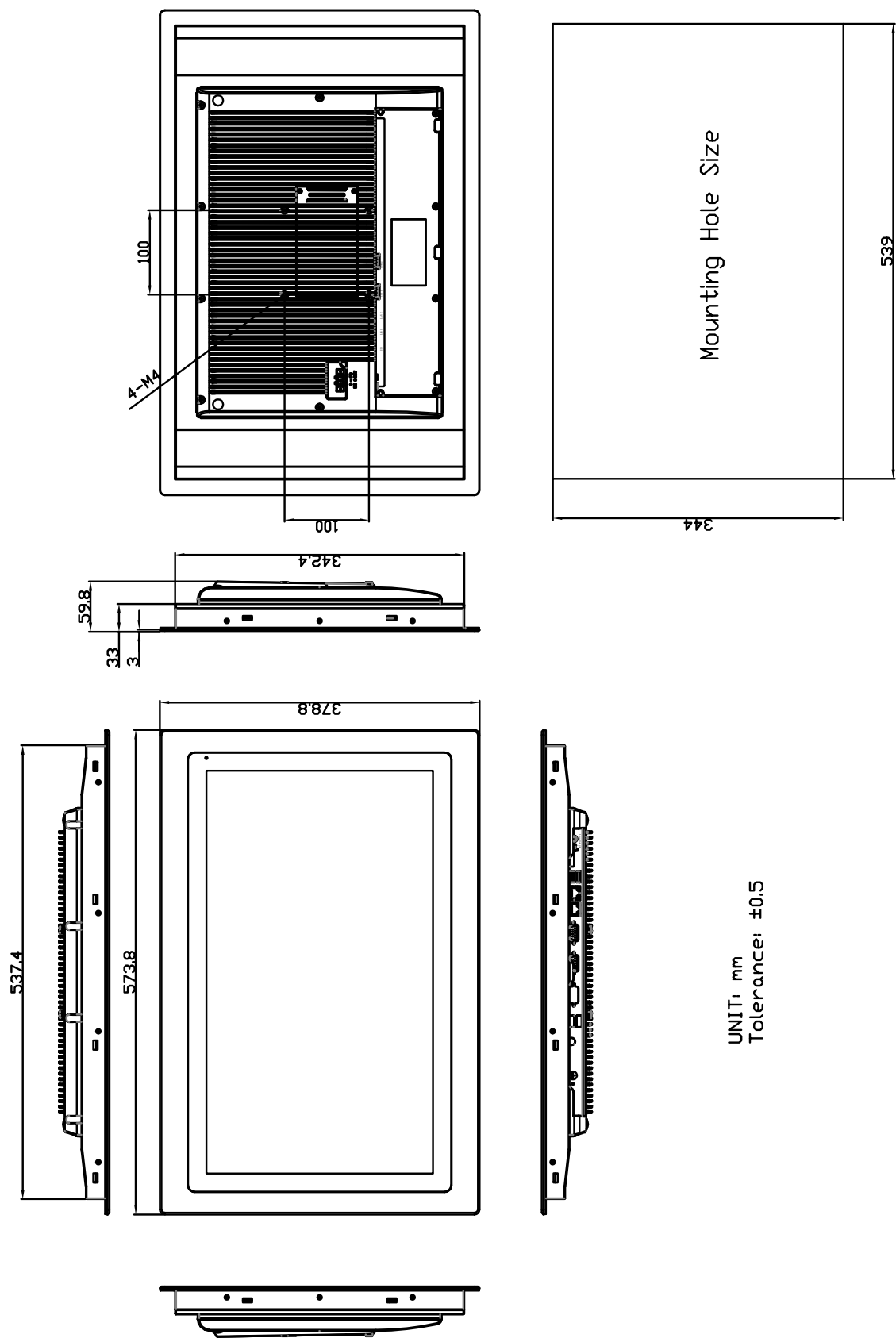


unit:mm

FABS-9XXAP/R(H) Series

Food Safety Grade and Hygienic Design HMI

FABS-921AR/P/G(H)



unit:mm

## Ordering information

| Model NO.                      | Description                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FABS-912AR/P (Barebone)</b> | 12.1" SVGA fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.          |
| <b>FABS-915AR/P(Barebone)</b>  | 15" XGA fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.             |
| <b>FABS-916AR/P(Barebone)</b>  | 15.6" WXGA/Full HD fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.  |
| <b>FABS-917AR/P(Barebone)</b>  | 17" SXGA fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.            |
| <b>FABS-918AR/P(Barebone)</b>  | 18.5" WXSGA/Full HD fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis. |
| <b>FABS-919AR/P (Barebone)</b> | 19" SXGA fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.            |
| <b>FABS-921AR/P (Barebone)</b> | 21.5" Full HD fanless HMI barebone with Intel 6th Corei3-6100U CPU, DDR4 SO-DIMM Socket, Projected Capacitive /Resistive touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.       |

Stainless Steel Panel Pc

Industrial Panel Pc

HMI

Embedded Box PC

Display



# FABS-8XX Series

Food Safety Grade and Hygienic Design HMI

Compact Size Intel Celeron N2930 HMI

- Intel Celeron N2930 1.83GHz Processor
- Onboard 4GB DDR3L SDRAM
- PCT and glass for option
- Front bezel IP66/IP69K
- 9~36V DC wide-ranging power input



EN-1672-2 Food Safety  
Grade Standard



Wide Range  
DC 9~36V Power Input



Flat Front Panel Design  
Front Bezel IP66/IP69K



SUS304 Stainless steel  
(Option SUS316)



Easily Accessible  
Storage Design







| Model Name                | FABS-807P/R/(H) |                                                                                                              |  | FABS-810P/R/(H) |                  |                                             | FABS-812P/R/(H)             |                |        | FABS-815P/R/(H) |                  |            |        |         |       |  |
|---------------------------|-----------------|--------------------------------------------------------------------------------------------------------------|--|-----------------|------------------|---------------------------------------------|-----------------------------|----------------|--------|-----------------|------------------|------------|--------|---------|-------|--|
| System                    |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Processor                 |                 | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                     |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| System Chipset            |                 | SoC                                                                                                          |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| System Memory             |                 | Onboard 4GB DDR3L SDRAM                                                                                      |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| External I/O              |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| USB                       |                 | 2 x USB 3.0 type A                                                                                           |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Serial/Parallel           |                 | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)                                       |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| LAN                       |                 | 2 x GbE LAN RJ-45                                                                                            |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Audio                     |                 | 1 x Line-out                                                                                                 |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Power connector           |                 | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                       |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Storage Space             |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| HDD                       |                 | 1 x MO-297 SSD space                                                                                         |  |                 |                  | 1 x 2.5" SATA HDD space (Easily Accessible) |                             |                |        |                 |                  |            |        |         |       |  |
| Movable device            |                 | 1 x internal Micro SD slot onboard                                                                           |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Expansion                 |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Onboard expansion bus     |                 | 1 xMini-PCle (full size)<br>1 x Micro SIM slot                                                               |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Display                   |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Display type              |                 | 7" TFT-LCD                                                                                                   |  |                 | 10.1" TFT-LCD    |                                             |                             | 12.1" TFT-LCD  |        |                 | 15" TFT-LCD      |            |        |         |       |  |
| Max. resolution           |                 | 800 x 480                                                                                                    |  |                 | 1280 x 800       |                                             |                             | 800x 600       |        | 1024 x 768      |                  | 1024 x 768 |        |         |       |  |
| Max. color                |                 | 262K                                                                                                         |  | 262K            |                  | 16.7M                                       |                             | 16.2M          |        | 16.2M           |                  | 16.2M      |        | 16.7M   |       |  |
| Luminance(cd/m²)          |                 | 350                                                                                                          |  | 1000            |                  | 350                                         |                             | 1000           |        | 450             |                  | 1000       |        | 500     |       |  |
| View angle(H°/V°)         |                 | 160/160                                                                                                      |  |                 | 170/170          |                                             |                             | 178/178        |        |                 | 178/178          |            |        | 176/176 |       |  |
| Contrast                  |                 | 1000:1                                                                                                       |  |                 | 800:1            |                                             | 1300:1                      |                | 1500:1 |                 | 700:1            |            | 1000:1 |         | 800:1 |  |
| Backlight lifetime(hrs)   |                 | 40000                                                                                                        |  |                 | 30000            |                                             | 50000                       |                | 50000  |                 | 30000            |            | 70000  |         | 70000 |  |
| Touch Screen              |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Type                      |                 | Projected capacitive/Resistive Touch                                                                         |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Interface                 |                 | USB                                                                                                          |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Light transmission(%)     |                 | 90% for PCT; 80% for Resistive touch                                                                         |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Power                     |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Power input               |                 | DC 9~36V                                                                                                     |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Power Consumption (TYP.)  |                 | 30                                                                                                           |  |                 | 30               |                                             |                             | 34             |        |                 | 37               |            |        |         |       |  |
| Mechanical                |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Construction              |                 | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (option)<br>Aluminum back cover |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| IP rating                 |                 | IP66/IP69K compliant front bezel                                                                             |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Mounting                  |                 | Panel Mount, VESA 75 x 75                                                                                    |  |                 |                  |                                             | Panel Mount, VESA 100 x 100 |                |        |                 |                  |            |        |         |       |  |
| Dimension(mm)             |                 | 217 x 163 x 40                                                                                               |  |                 | 296 x 200 x 46.9 |                                             |                             | 331 x 257 x 52 |        |                 | 422 x 322 x 54.1 |            |        |         |       |  |
| Net weight(Kg)            |                 | 1.6                                                                                                          |  |                 | 2.5              |                                             |                             | 3.4            |        |                 | 5.1              |            |        |         |       |  |
| Environment               |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Operating temperature(°C) |                 | 0~50°C/-20~60°C(option)                                                                                      |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Storage temperature(°C)   |                 | -30~70°C                                                                                                     |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Humidity                  |                 | 10 to 90%@ 40°C, non-condensing                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Certification             |                 | CE / FCC Class A<br>EN 1672-2 for P model                                                                    |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Operating System Support  |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |
| Windows 10 IoT ENT LTSC   |                 |                                                                                                              |  |                 |                  |                                             |                             |                |        |                 |                  |            |        |         |       |  |

# FABS-8XX Series

Food Safety Grade and Hygienic Design HMI



| Model Name                | FABS-816P/R/(H)                                                                                              |         |             |      | FABS-817P/R/(H)      |      |            |      | FABS-818P/R/(H)  |      |         |  |
|---------------------------|--------------------------------------------------------------------------------------------------------------|---------|-------------|------|----------------------|------|------------|------|------------------|------|---------|--|
| System                    |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Processor                 | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                     |         |             |      |                      |      |            |      |                  |      |         |  |
| System Chipset            | SoC                                                                                                          |         |             |      |                      |      |            |      |                  |      |         |  |
| System Memory             | Onboard 4GB DDR3L SDRAM                                                                                      |         |             |      |                      |      |            |      |                  |      |         |  |
| External I/O              |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| USB                       | 2 x USB 3.0 type A                                                                                           |         |             |      |                      |      |            |      |                  |      |         |  |
| Serial/Parallel           | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)                                       |         |             |      |                      |      |            |      |                  |      |         |  |
| LAN                       | 2 x GbE LAN RJ-45                                                                                            |         |             |      |                      |      |            |      |                  |      |         |  |
| Audio                     | 1 x Line-out                                                                                                 |         |             |      |                      |      |            |      |                  |      |         |  |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                       |         |             |      |                      |      |            |      |                  |      |         |  |
| Storage Space             |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| HDD                       | 1 x 2.5" SATA HDD space (Easily Accessible)                                                                  |         |             |      |                      |      |            |      |                  |      |         |  |
| Movable device            | 1 x internal Micro SD slot onboard                                                                           |         |             |      |                      |      |            |      |                  |      |         |  |
| Expansion                 |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Onboard expansion bus     | 1 xMini-PCIe (full size)<br>1 x Micro SIM slot                                                               |         |             |      |                      |      |            |      |                  |      |         |  |
| Display                   |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Display type              | 15.6" TFT-LCD                                                                                                |         |             |      | 17" TFT-LCD          |      |            |      | 18.5" TFT-LCD    |      |         |  |
| Max. resolution           | 1366 x 768                                                                                                   |         | 1920 x 1080 |      | 1280 x 1024          |      | 1366 x 768 |      | 1920 x 1080      |      |         |  |
| Max. color                | 16.7M                                                                                                        |         | 16.2M       |      | 16.2M                |      | 16.7M      |      | 16.7M            |      |         |  |
| Luminance(cd/m²)          | 400                                                                                                          | 1000    | 450         | 1000 | 350                  | 1000 | 300        | 1000 | 350              | 1000 |         |  |
| View angle(H°/V°)         | 170/160                                                                                                      | 160/160 | 170/170     |      | 170/160              |      | 140/140    |      | 170/160          |      | 178/178 |  |
| Contrast                  | 500:1                                                                                                        |         | 800:1       |      | 1000:1               |      | 800:1      |      | 1000:1           |      |         |  |
| Backlight lifetime(hrs)   | 30000                                                                                                        |         | 50000       |      | 50000                |      | 40000      |      | 50000            |      | 50000   |  |
| Touch Screen              |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Type                      | Projected capacitive/Resistive Touch                                                                         |         |             |      |                      |      |            |      |                  |      |         |  |
| Interface                 | USB                                                                                                          |         |             |      |                      |      |            |      |                  |      |         |  |
| Light transmission(%)     | 90% for PCT; 80% for Resistive touch                                                                         |         |             |      |                      |      |            |      |                  |      |         |  |
| Power                     |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Power input               | DC 9~36V                                                                                                     |         |             |      |                      |      |            |      |                  |      |         |  |
| Power Consumption (TYP.)  | 38W                                                                                                          |         |             |      | 40W                  |      |            |      | 51W              |      |         |  |
| Mechanical                |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Construction              | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (option)<br>Aluminum back cover |         |             |      |                      |      |            |      |                  |      |         |  |
| IP rating                 | IP66/IP69K compliant front bezel                                                                             |         |             |      |                      |      |            |      |                  |      |         |  |
| Mounting                  | Panel Mount, VESA 100 x 100                                                                                  |         |             |      |                      |      |            |      |                  |      |         |  |
| Dimension(mm)             | 422 x 322 x 54.1                                                                                             |         |             |      | 449.4 x 358.4 x 63.8 |      |            |      | 510 x 325 x 63.7 |      |         |  |
| Net weight(Kg)            | 5.2                                                                                                          |         |             |      | 6.4                  |      |            |      | 6.9              |      |         |  |
| Environment               |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Operating temperature(°C) | 0~50°C/-20~60°C(option)                                                                                      |         |             |      |                      |      |            |      |                  |      |         |  |
| Storage temperature(°C)   | -30~70°C                                                                                                     |         |             |      |                      |      |            |      |                  |      |         |  |
| Humidity                  | 10 to 90%@ 40°C, non-condensing                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Certification             | CE / FCC Class A<br>EN 1672-2 for P model                                                                    |         |             |      |                      |      |            |      |                  |      |         |  |
| Operating System Support  |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |
| Windows 10 IoT ENT LTSCB  |                                                                                                              |         |             |      |                      |      |            |      |                  |      |         |  |

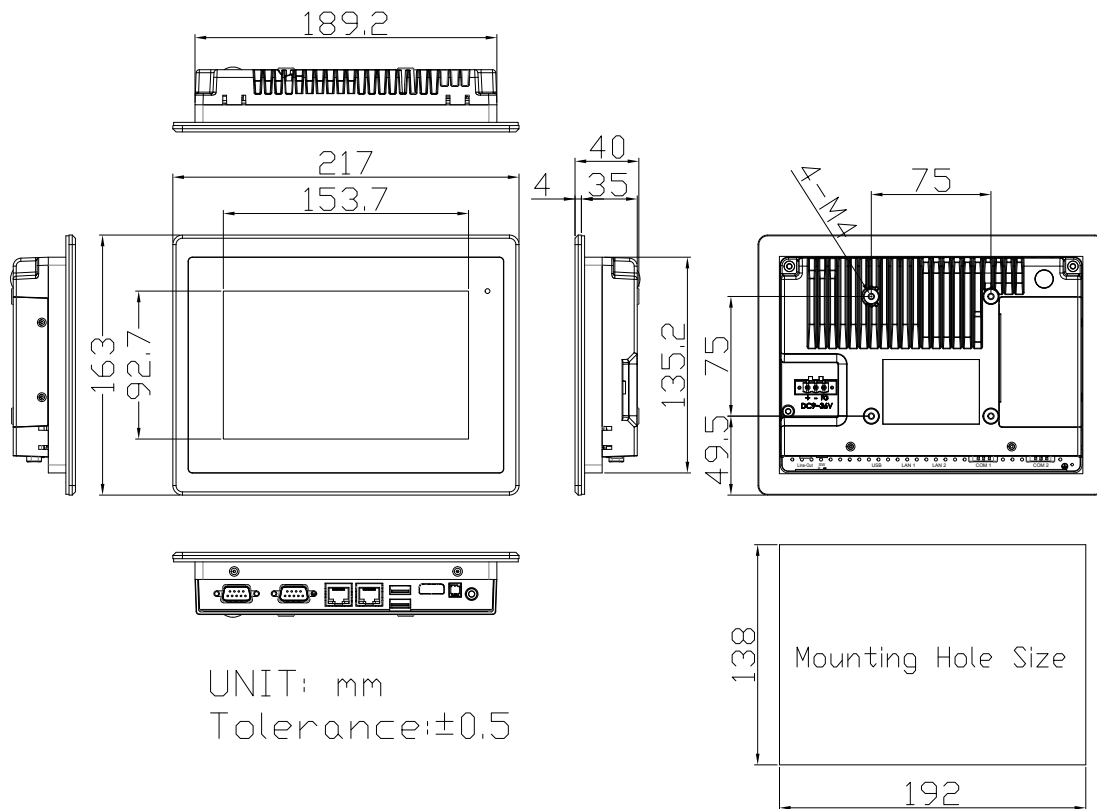


| Model Name                | FABS-819P/R/(H)                                                                                              |      | FABS-821P/R/(H)      |      |
|---------------------------|--------------------------------------------------------------------------------------------------------------|------|----------------------|------|
| System                    |                                                                                                              |      |                      |      |
| Processor                 | Onboard Intel Celeron N2930 Processor (2M Cache,1.83GHz)                                                     |      |                      |      |
| System Chipset            | SoC                                                                                                          |      |                      |      |
| System Memory             | Onboard 4GB DDR3L SDRAM                                                                                      |      |                      |      |
| External I/O              |                                                                                                              |      |                      |      |
| USB                       | 2 x USB 3.0 type A                                                                                           |      |                      |      |
| Serial/Parallel           | 1 x RS-232/422/485 DB-9, default RS-232(COM1)<br>1 x RS-232 DB-9(COM2)                                       |      |                      |      |
| LAN                       | 2 x GbE LAN RJ-45                                                                                            |      |                      |      |
| Audio                     | 1 x Line-out                                                                                                 |      |                      |      |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x 2-pin Power Switch connector                                       |      |                      |      |
| Storage Space             |                                                                                                              |      |                      |      |
| HDD                       | 1 x 2.5" SATA HDD space (Easily Accessible)                                                                  |      |                      |      |
| Movable device            | 1 x internal Micro SD slot onboard                                                                           |      |                      |      |
| Expansion                 |                                                                                                              |      |                      |      |
| Onboard expansion bus     | 1 xMini-PCIe (full size)<br>1 x Micro SIM slot                                                               |      |                      |      |
| Display                   |                                                                                                              |      |                      |      |
| Display type              | 19" TFT-LCD                                                                                                  |      | 21.5" TFT-LCD        |      |
| Max. resolution           | 1280 x 1024                                                                                                  |      | 1920 x 1080          |      |
| Max. color                | 16.7M                                                                                                        |      | 16.7M                |      |
| Luminance(cd/m²)          | 350                                                                                                          | 1000 | 250                  | 1000 |
| View angle(H°/V°)         | 170/160                                                                                                      |      | 178/178              |      |
| Contrast                  | 1000:1                                                                                                       |      | 1000:1               |      |
| Backlight lifetime(hrs)   | 50000                                                                                                        |      | 50000                |      |
| Touch Screen              |                                                                                                              |      |                      |      |
| Type                      | Projected capacitive/Resistive Touch                                                                         |      |                      |      |
| Interface                 | USB                                                                                                          |      |                      |      |
| Light transmission(%)     | 90% for PCT; 80% for Resistive touch                                                                         |      |                      |      |
| Power                     |                                                                                                              |      |                      |      |
| Power input               | DC 9~36V                                                                                                     |      |                      |      |
| Power Consumption (TYP.)  | 44W                                                                                                          |      | 44W                  |      |
| Mechanical                |                                                                                                              |      |                      |      |
| Construction              | 304 Stainless steel front bezel (Default)<br>316 Stainless steel front bezel (option)<br>Aluminum back cover |      |                      |      |
| IP rating                 | IP66/IP69K compliant front bezel                                                                             |      |                      |      |
| Mounting                  | Panel Mount, VESA 100 x 100                                                                                  |      |                      |      |
| Dimension(mm)             | 485 x 398 x 63.8                                                                                             |      | 573.8 x 378.8 x 59.8 |      |
| Net weight(Kg)            | 7.7                                                                                                          |      | 8.0                  |      |
| Environment               |                                                                                                              |      |                      |      |
| Operating temperature(°C) | 0~50°C/-20~60°C(option)                                                                                      |      | 0~50°C               |      |
| Storage temperature(°C)   | -30~70°C                                                                                                     |      |                      |      |
| Humidity                  | 10 to 90%@ 40°C, non-condensing                                                                              |      |                      |      |
| Certification             | CE / FCC Class A<br>EN 1672-2 for P model                                                                    |      |                      |      |
| Operating System Support  |                                                                                                              |      |                      |      |
| Windows 10 IoT ENT LTSCB  |                                                                                                              |      |                      |      |

## FABS-8XX Series

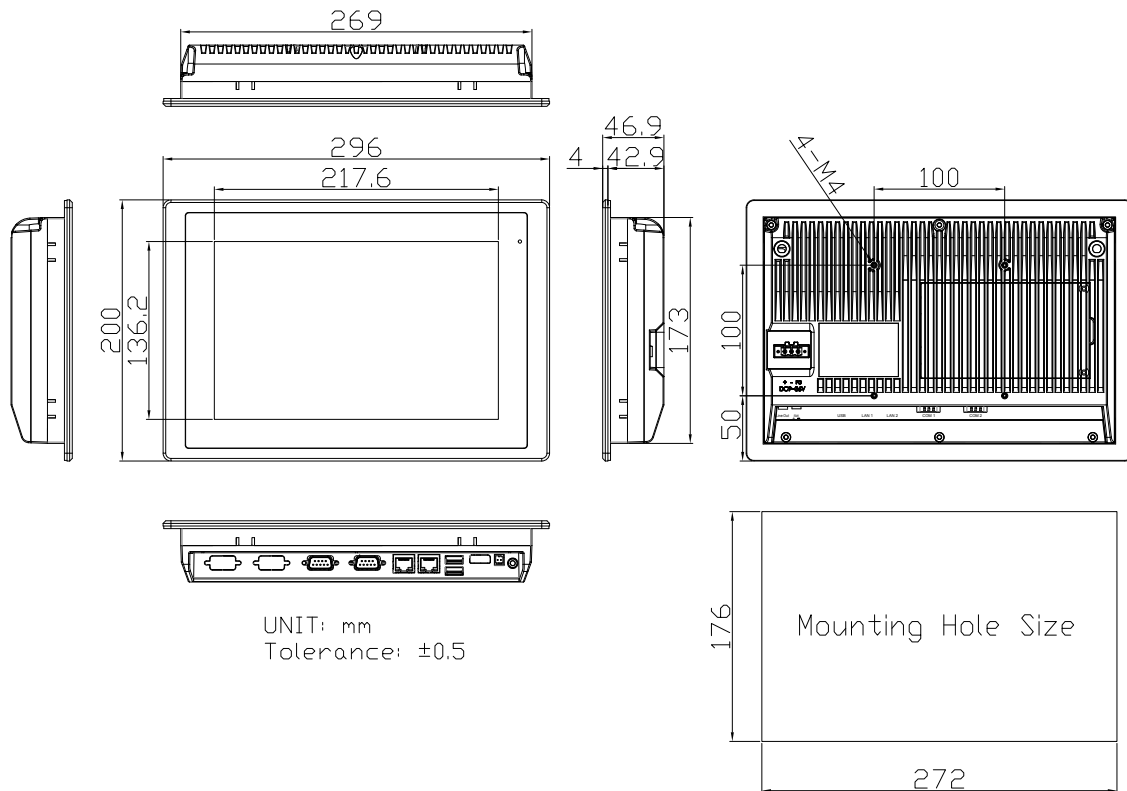
Food Safety Grade and Hygienic Design HMI

### FABS-807P/G(H)



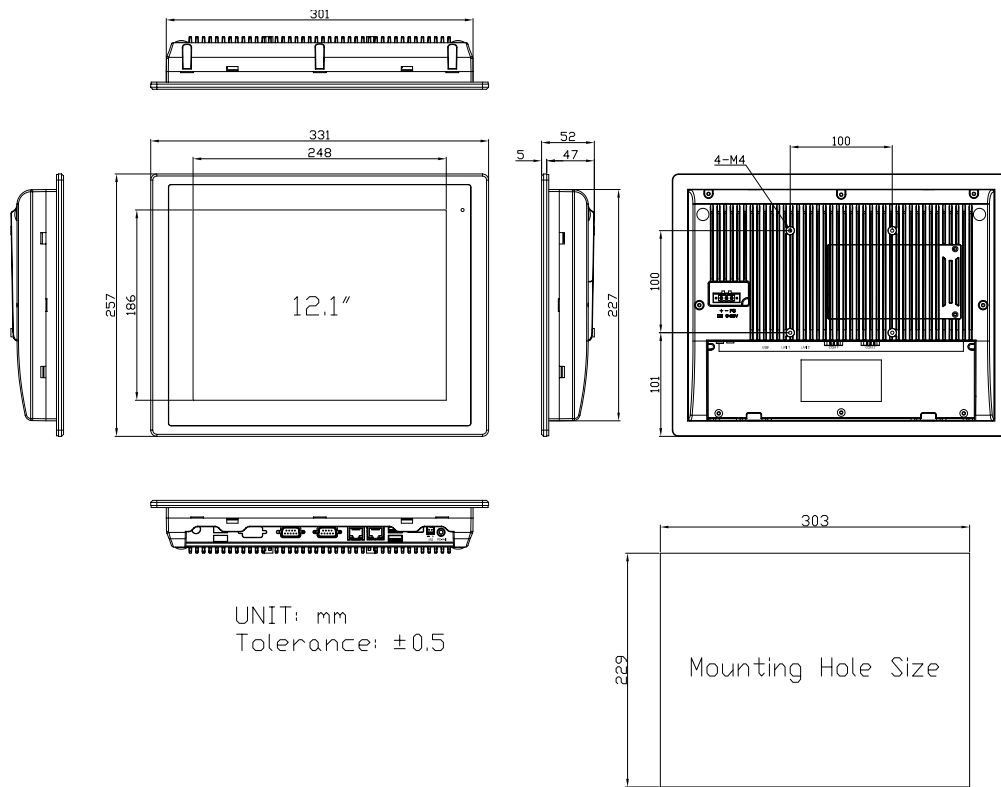
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### FABS-810P/G(H)



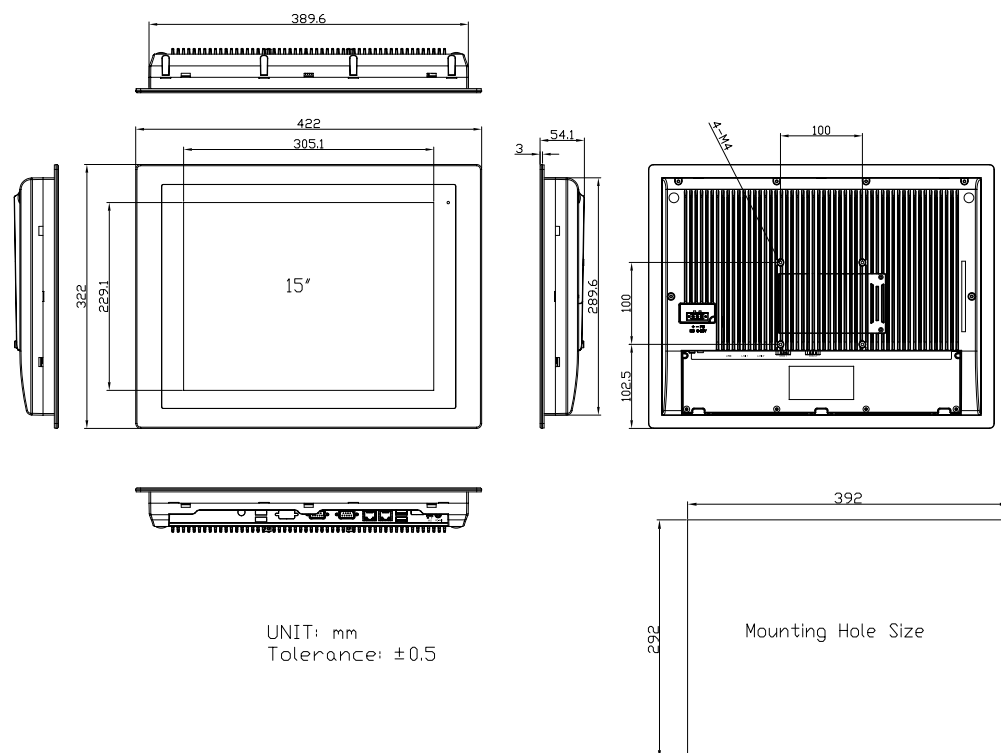
unit:mm

## FABS-812P/G(H)



unit:mm

## FABS-815P/G(H)



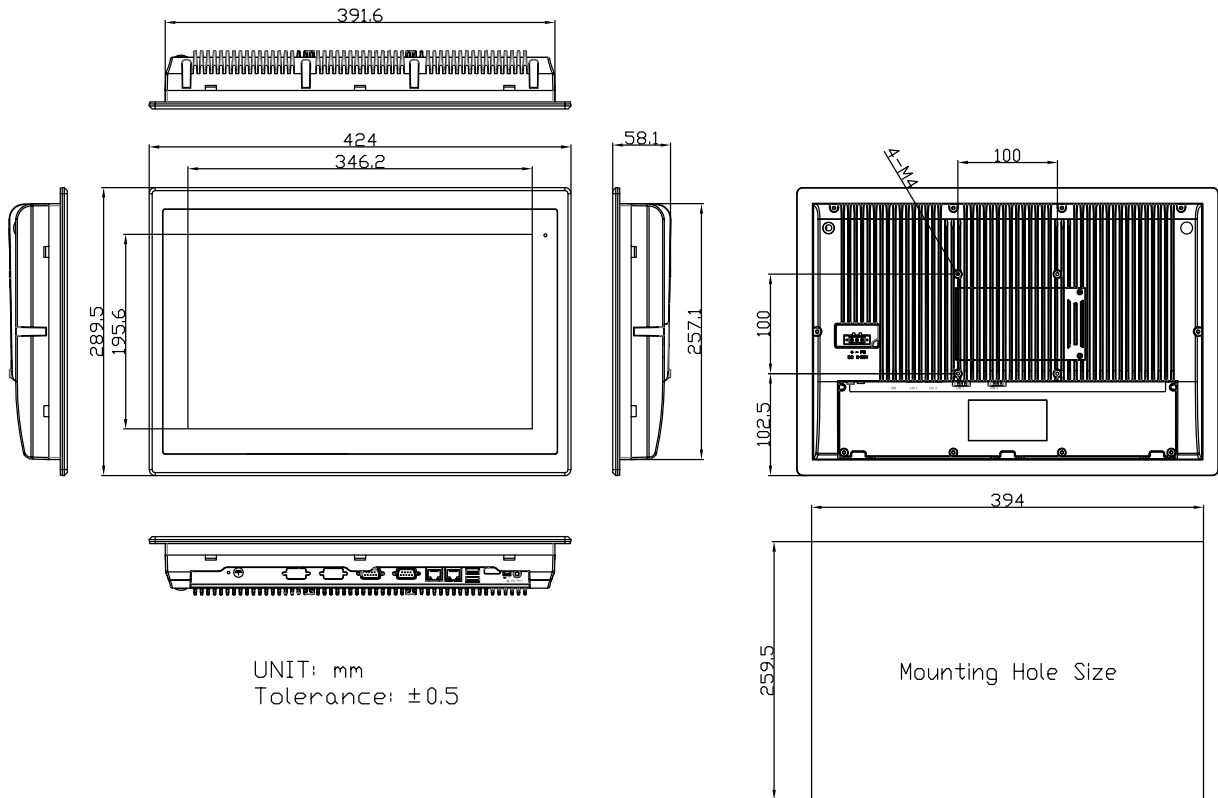
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## FABS-8XX Series

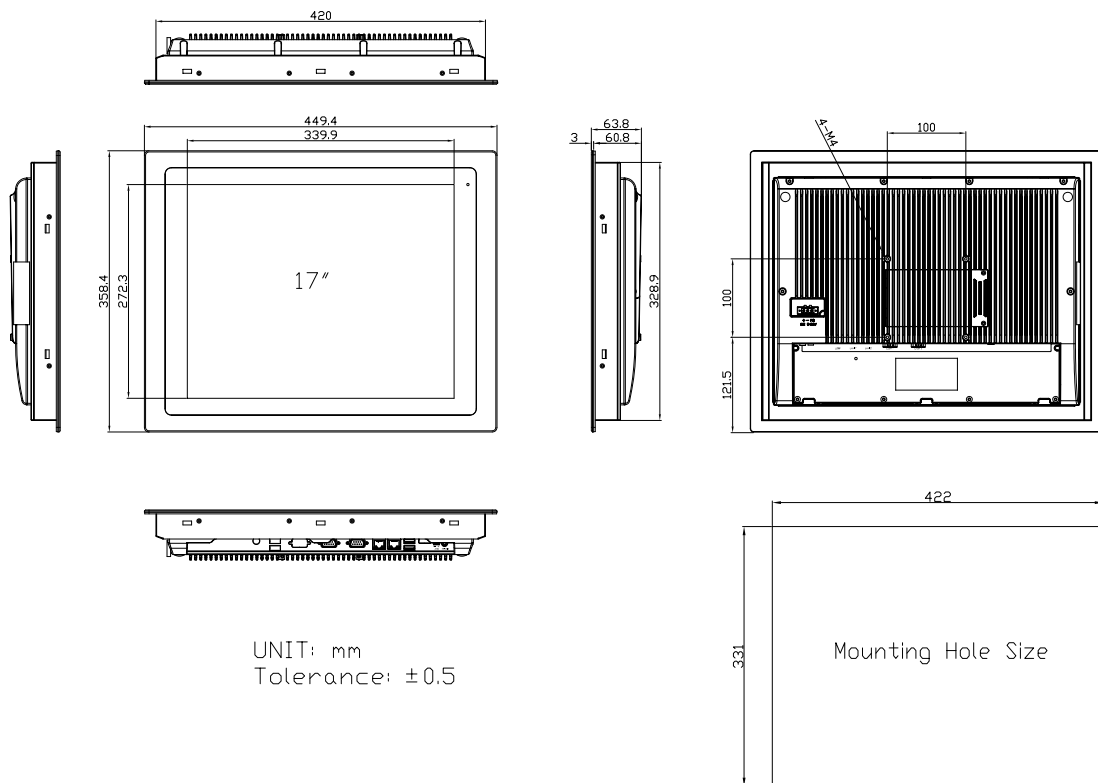
Food Safety Grade and Hygienic Design HMI

### FABS-816P/G(H)



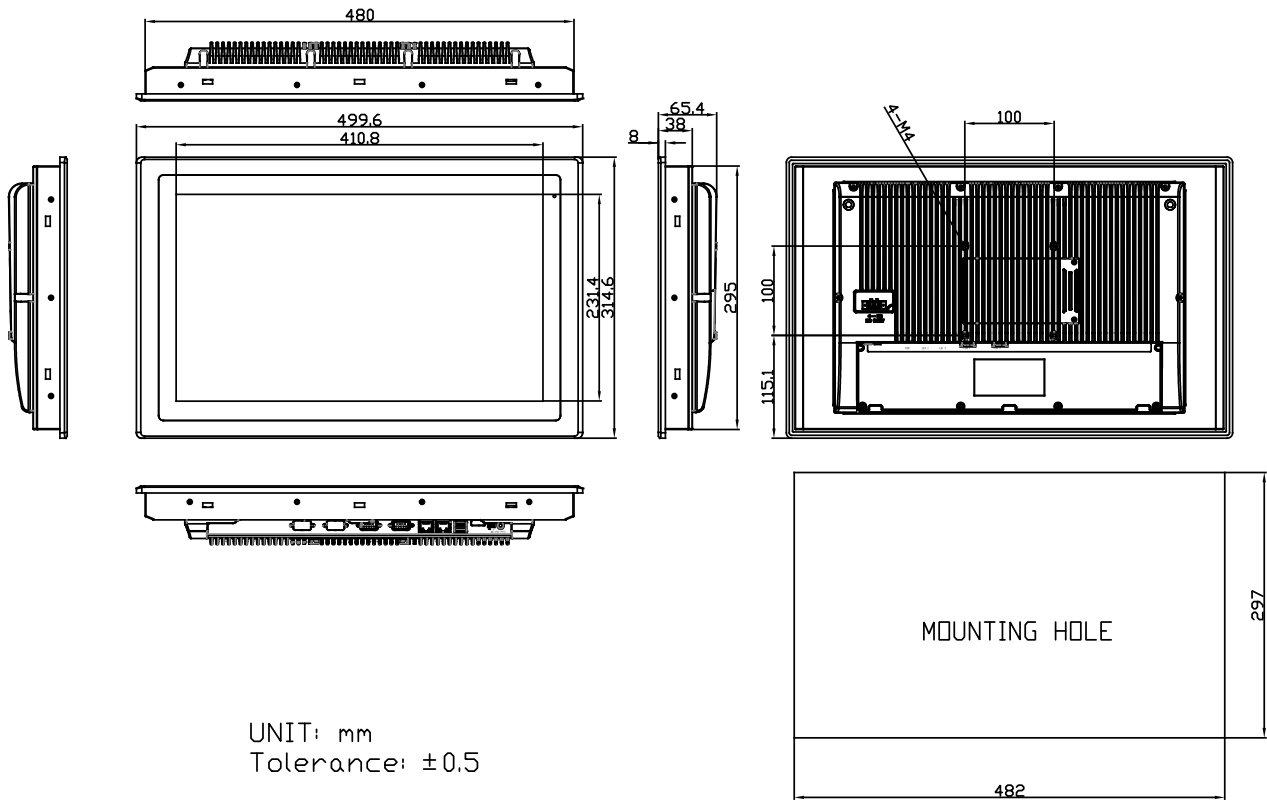
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### FABS-817P/G(H)



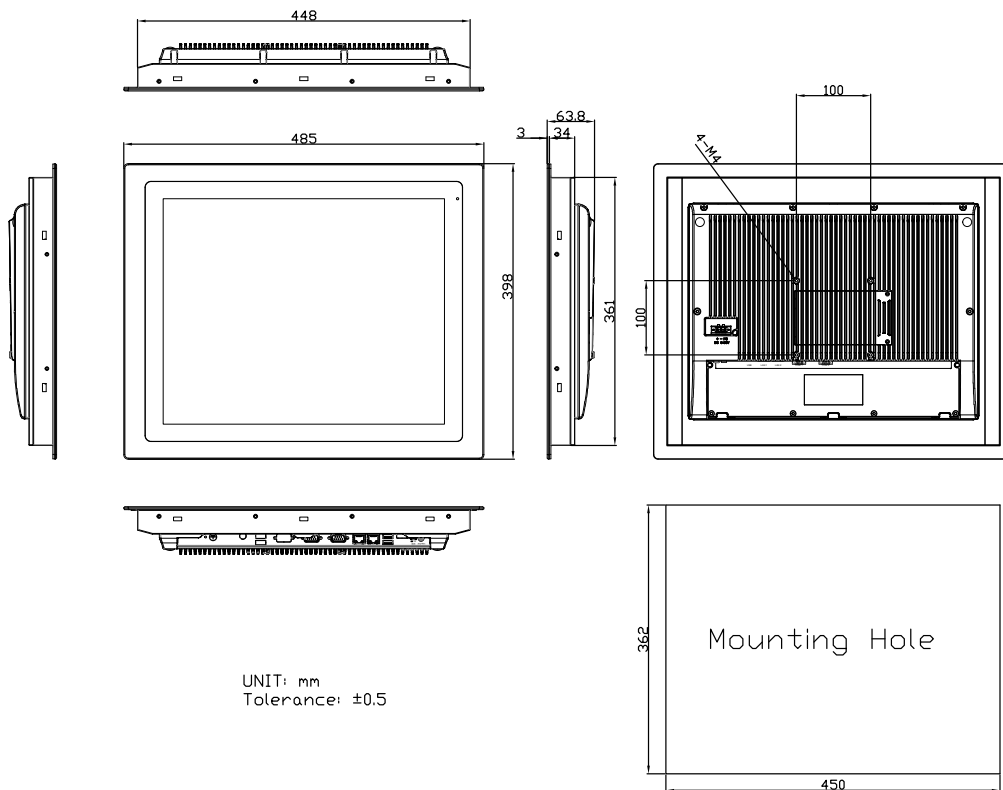
unit:mm

## FABS-818P/G(H)



unit:mm

## FABS-819P/G(H)

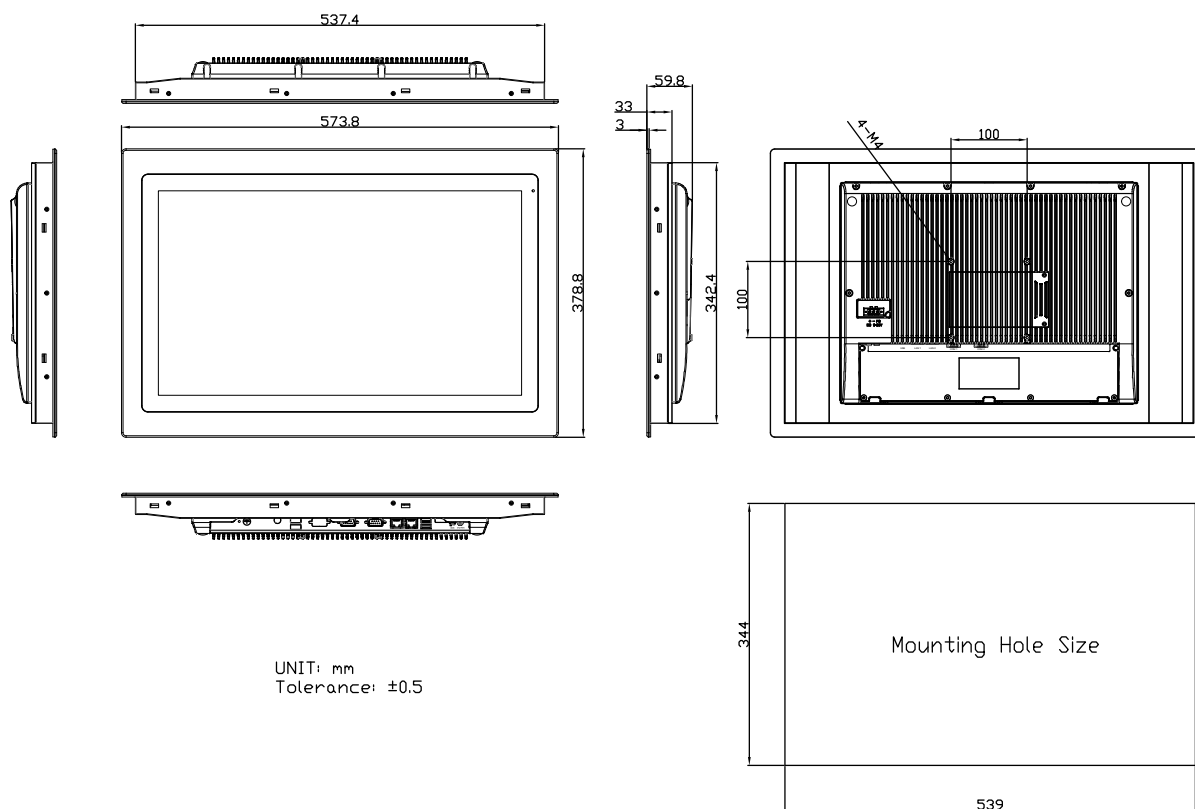


unit:mm

# FABS-8XX Series

Food Safety Grade and Hygienic Design HMI

## FABS-821P/G(H)



unit:mm

## Ordering information

| Model NO.              | Description                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FABS-807P/R (Barebone) | 7" WVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.                |
| FABS-810P/R (Barebone) | 10.1" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.            |
| FASB-812P/R (Barebone) | 12.1" SVGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.            |
| FABS-815P/R (Barebone) | 15" XGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch/ Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.        |
| FABS-816P/R (Barebone) | 15.6" WXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.            |
| FABS-817P/R (Barebone) | 17" SXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.              |
| FABS-818P/R (Barebone) | 18.5" WSXGA fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.           |
| FABS-819P/R (Barebone) | 19" SXGA fanless HMI barebone with Intel Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive touch/ Resistive Touch,, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis. |
| FABS-821P/R (Barebone) | 21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz ) CPU, 4GB DDR3L RAM, Projected Capacitive/Resistive Touch/, 9~36VDC input with adapter, Stainless front bezel and Aluminum chassis.             |

# Box PC

APLEX Box PC, combining with IIoT, optimizes the real-time computing, perfectly stabilizing the connectivity of H2M/HMI/SCADA system. These product lines bring superior performance, expansibility and multi-tasking capability.

APLEX's Box PCs are primarily designed for industrial or special applications usage. To deal with different applications, the Box PCs can be mounted via wall mount and din rail mount. Our Box PCs are capable of handling a wide range of DC voltage input and wide operating temperature; Fanless design with shock resistant and excellent cooling system. To meet your needs in different applications and services, PCI/PCIe expansion slots can be selected to better monitor your application.





| Model Name        | ACS-2332                                 | ACS-2330                                 | ACS-2320A                                |
|-------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| CPU               | Intel 6 <sup>th</sup> Gen. Core i3/i5/i7 | Intel 6 <sup>th</sup> Gen. Core i3/i5/i7 | Intel 6 <sup>th</sup> Gen. Core i3/i5/i7 |
| Memory            | 2 x DDR4 SO-DIMM                         | 2 x DDR4 SO-DIMM                         | 1 x DDR4 SO-DIMM                         |
| Fanless           | Yes                                      | Yes                                      | Yes                                      |
| PCI expansion     | 1 x PCIe x4<br>or 2 x PCIe x1            | No                                       | No                                       |
| PCIe expansion    | Yes                                      | No                                       | No                                       |
| Dual Display      | Yes                                      | Yes                                      | Yes                                      |
| HDD Space         | 2 x 2.5"                                 | 2 x 2.5"                                 | 1 x 2.5"                                 |
| Din rail mounting | No                                       | Option                                   | No                                       |
| IP rating         | IP20                                     | IP20                                     | IP30                                     |

| Model Name        | ACS-2312            | ACS-2311            | ACS-2310            |
|-------------------|---------------------|---------------------|---------------------|
| CPU               | Intel Celeron N2930 | Intel Celeron N2930 | Intel Celeron N2930 |
| Memory            | 2 x DDR3L SO-DIMM   | 1 x DDR3L SO-DIMM   | 1 x DDR3L SO-DIMM   |
| Fanless           | Yes                 | Yes                 | Yes                 |
| PCI expansion     | No                  | No                  | No                  |
| PCIe expansion    | Yes                 | No                  | No                  |
| Dual Display      | Yes                 | Yes                 | Yes                 |
| HDD Space         | 1 x 2.5"            | 1 x 2.5"            | 1 x 2.5"            |
| Din rail mounting | No                  | Option              | No                  |
| IP rating         | IP20                | IP30                | IP30                |

| Model Name        | AEx-2410            | AEx-2411                              | ACS-2170                              | ACS-2702A            |
|-------------------|---------------------|---------------------------------------|---------------------------------------|----------------------|
| CPU               | Intel Celeron N2930 | Intel 6 <sup>th</sup> Gen. Core i3/i5 | Intel Celeron N2930                   | Intel Baytrail N2930 |
| Memory            | 4GB DDR3L Onboard   | 1 x DDR4 SO-DIMM                      | 2GB DDR3L Onboard<br>(4GB for Option) | 4GB DDR3L Onboard    |
| Fanless           | Yes                 | Yes                                   | Yes                                   | Yes                  |
| PCI expansion     | No                  | No                                    | No                                    | No                   |
| PCIe expansion    | No                  | No                                    | No                                    | No                   |
| Dual Display      | No                  | No                                    | Yes                                   | No                   |
| HDD Space         | 1 x 2.5"            | 1 x 2.5"                              | 1 x 2.5"                              | 1 x 2.5"             |
| Din rail mounting | No                  | No                                    | Option                                | No                   |
| IP rating         | IP66                | IP66                                  | IP20                                  | IP67                 |



# TITAN

## Industrial Rugged Box PC

High Bandwidth PCI Express Link for Speed and Expandability



Automation Products Leading Expert

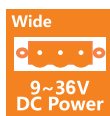
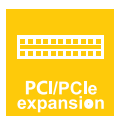


# ACS-2332

I/O Expandable Fanless Box PC

6<sup>th</sup>/7<sup>th</sup> Gen. Intel® Core™ Platform

- Socket H4, 6<sup>th</sup>/7<sup>th</sup> Gen Intel Core Processor
- Triple Independent Display Ports
- Fanless Design
- Wide Range DC 9~36V Power Input
- Multi-Expansion slot, Support 2 x PCIe slot



Socket H4, 6<sup>th</sup>/7<sup>th</sup> Gen.  
Intel Core Processor



Fanless Design



Wide Range DC 9~36V  
Power Input



Multi-Expansion Slot



Easy Accessible Storage  
Design



## Specifications

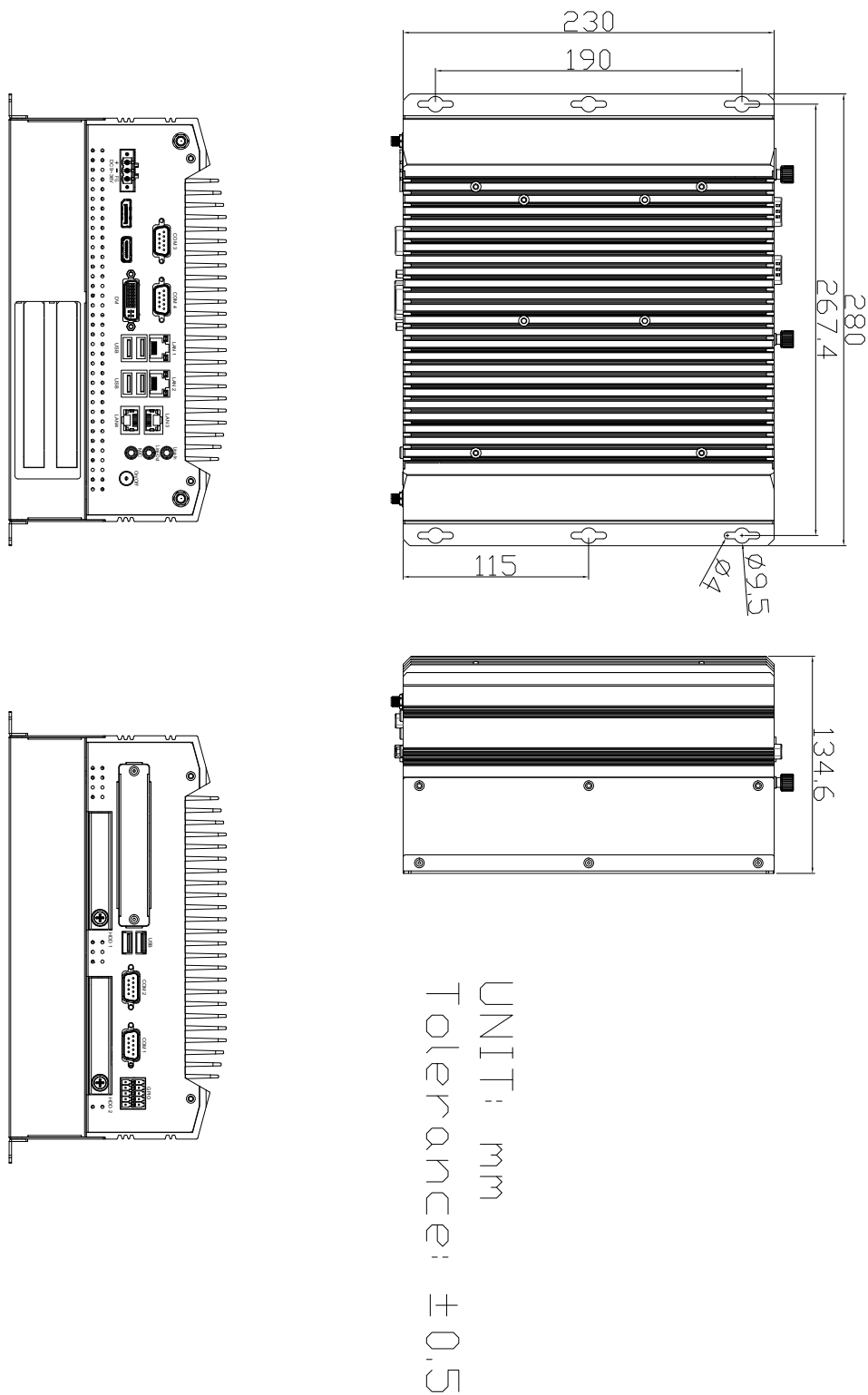


| Model Name                                                 | ACS-2332                                                                                                      |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>System</b>                                              |                                                                                                               |
| Processor                                                  | Socket H4,6th/7th Gen Intel Core Processor                                                                    |
| System Chipset                                             | Intel 100 Series Chipset (Q170 Default)                                                                       |
| System Memory                                              | 2 x 260-pin SO-DIMM up to 32GB DDR4 2133 MHz                                                                  |
| <b>External I/O</b>                                        |                                                                                                               |
| USB                                                        | 4 x USB 3.0 type A<br>2 x USB 2.0 type A                                                                      |
| Serial/Parallel                                            | 2 x RS-232 DB9, (COM3/COM4)<br>2 x RS-232/422/485 DB9, (COM1/COM2), default RS-232                            |
| LAN                                                        | 4 x GbE LAN RJ-45                                                                                             |
| Graph                                                      | 1 x Display port, 1 x DVI-I, 1x HDMI                                                                          |
| Audio                                                      | 1 x Line-in, 1 x Line-out, 1 x Mic                                                                            |
| Digital I/O                                                | 1 x 8-bit GPIO (4 x DI, 4 x DO)                                                                               |
| Power connector                                            | 1 x 3-pin terminal block connector<br>1 x Power button with light                                             |
| <b>Storage Space</b>                                       |                                                                                                               |
| HDD                                                        | 2 x 2.5" SATA3 HDD bay (Easy Accessible), Support RAID 0,1<br>1 x mSATA                                       |
| <b>Expansion</b>                                           |                                                                                                               |
| Onboard expansion bus                                      | 3 x Mini PCIe slot (full size), one shared with mSATA                                                         |
| Expansion slot                                             | 2 x PCIe slot via TB-554 Riser Card<br>Support 2 x PCIe x1 slots(Default)<br>Support 1 x PCIe x4 slot(option) |
| <b>Power</b>                                               |                                                                                                               |
| Power input                                                | DC 9~36V                                                                                                      |
| Power Consumption                                          | Max:60.4W                                                                                                     |
| <b>Mechanical</b>                                          |                                                                                                               |
| Construction                                               | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                               |
| IP rating                                                  | IP20                                                                                                          |
| Mounting                                                   | Wall mount                                                                                                    |
| Dimension(mm)                                              | 280 x 230 x 134.6                                                                                             |
| Net weight(Kg)                                             | 5.6                                                                                                           |
| <b>Environment</b>                                         |                                                                                                               |
| Operating temperature(°C)                                  | 0~50<br>(-20~60 for option)                                                                                   |
| Storage temperature(°C)                                    | -40~85                                                                                                        |
| Humidity                                                   | 10 to 95% @ 40°C, non- condensing                                                                             |
| Certification                                              | CE/FCC Class A                                                                                                |
| <b>Operating System Support</b>                            |                                                                                                               |
| Windows Embedded 8.1 Industry Pro, WE8S<br>Win 10 IoT 2016 |                                                                                                               |

ACS-2332

I/O Expandable Fanless Box PC

ACS-2332



unit:mm

Ordering information

| Model NO.           | Description                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2332 (Barebone) | Fanless Box PC, Intel® 6 <sup>th</sup> /7 <sup>th</sup> Core™ CPU, 2 x SO-DIMM DDR4 slots, 2 x 2.5" HDD spaces, 3 x mini-PCIe slots, 2 x PCIe x1 slots or 1 x PCIe x4 slot, DC 9~36V power input with adapter, Steel Chassis with Aluminum Heatsink |



# ACS-2330

I/O Expandable Fanless Box PC

6<sup>th</sup>/7<sup>th</sup> Gen. Intel® Core™ Platform

- Socket H4, 6<sup>th</sup>/7<sup>th</sup> Gen Intel Core Processor
- Triple Independent Display Ports
- Fanless Design
- Wide Range DC 9~36V Power Input



Socket H4, 6<sup>th</sup>/7<sup>th</sup> Gen Intel Core Processor



Fanless Design



Wide Range DC 9~36V Power Input



Triple Independent Display Ports



Easy Accessible Storage Design





# ACS-2330

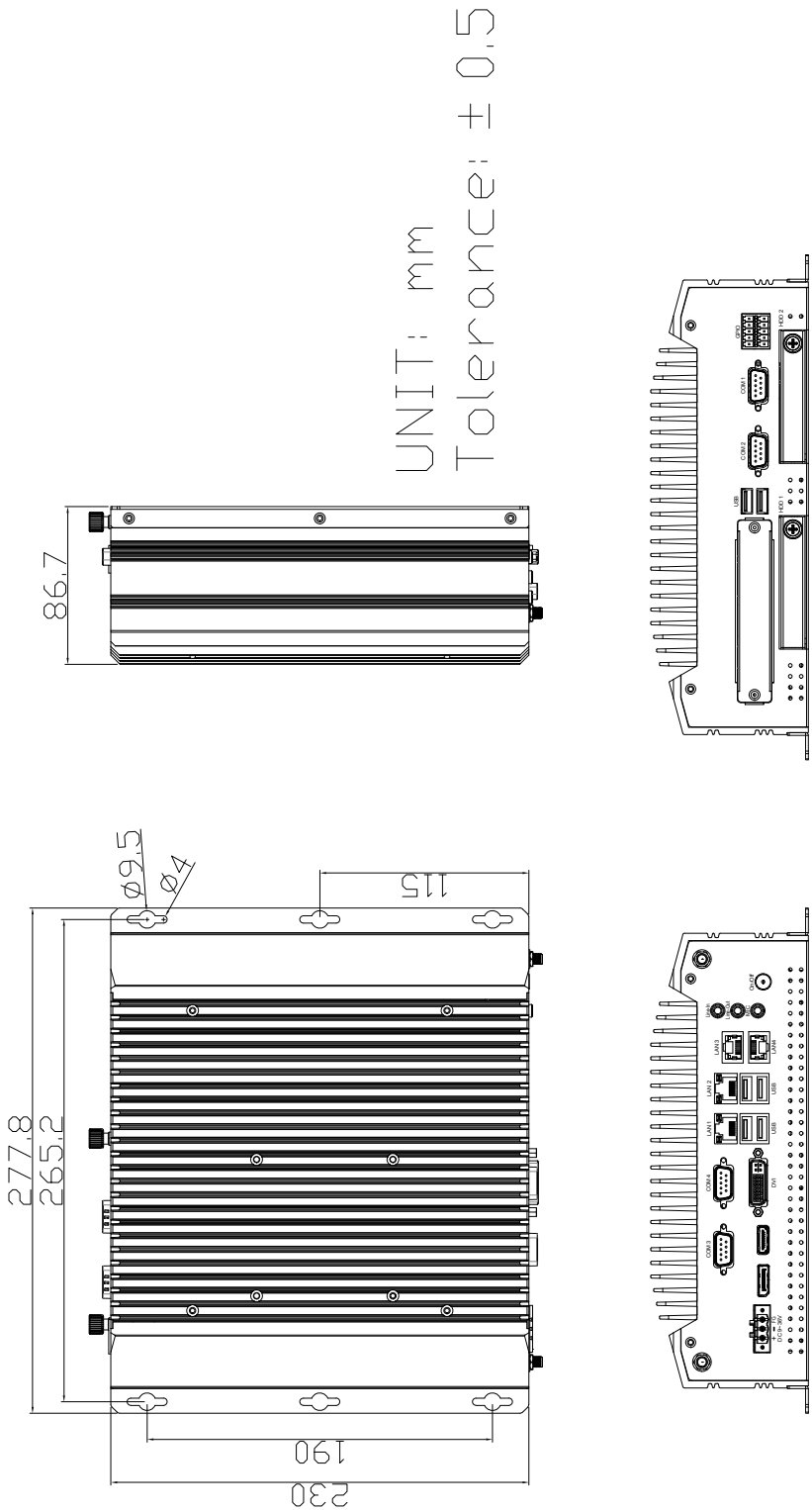
I/O Expandable Fanless Box PC



## Specifications

| Model Name                                                 | ACS-2330                                                                          |
|------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>System</b>                                              |                                                                                   |
| Processor                                                  | Socket H4, 6th/7th Gen Intel Core Processor                                       |
| System Chipset                                             | Intel 100 Series Chipset (Q170 Default)                                           |
| System Memory                                              | 2 x 260-pin SO-DIMM DDR4 1866/2133 MHz, up to 32GB                                |
| <b>External I/O</b>                                        |                                                                                   |
| USB                                                        | 4 x USB 3.0 type A<br>2 x USB 2.0 type A                                          |
| Serial/Parallel                                            | 2 x RS-232 DB9, (COM3/COM4)<br>2 x RS-232/422/485 DB9 (COM1/COM2), default RS-232 |
| LAN                                                        | 4 x GbE LAN RJ-45                                                                 |
| Graph                                                      | 1 x Display port, 1 x DVI-I, 1x HDMI                                              |
| Audio                                                      | 1 x Line-in, 1 x Line-out, 1 x Mic                                                |
| Digital I/O                                                | 1 x 8-bit GPIO (4 x DI, 4 x DO)                                                   |
| Power connector                                            | 1 x 3-pin terminal block connector<br>1 x Power button with light                 |
| <b>Storage Space</b>                                       |                                                                                   |
| HDD                                                        | 2 x 2.5" SATA3 HDD bay (Easy Accessible), Support RAID 0,1<br>1 x mSATA           |
| <b>Expansion</b>                                           |                                                                                   |
| Onboard expansion bus                                      | 3 x Mini PCIe slot (full size), one shared with mSATA                             |
| Expansion slot                                             | None                                                                              |
| <b>Power</b>                                               |                                                                                   |
| Power input                                                | DC 9~36V                                                                          |
| Power Consumption                                          | Max:56.3W                                                                         |
| <b>Mechanical</b>                                          |                                                                                   |
| Construction                                               | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                   |
| IP rating                                                  | IP20                                                                              |
| Mounting                                                   | Wall mount, Din Rail Mount(option)                                                |
| Dimension(mm)                                              | 277.8 x 230 x 86.7                                                                |
| Net weight(Kg)                                             | 4.5                                                                               |
| <b>Environment</b>                                         |                                                                                   |
| Operating temperature(°C)                                  | 0~50<br>(-20~60 for option)                                                       |
| Storage temperature(°C)                                    | -30~70                                                                            |
| Humidity                                                   | 10 to 95% @ 40°C, non- condensing                                                 |
| Certification                                              | CE/FCC Class A                                                                    |
| <b>Operating System Support</b>                            |                                                                                   |
| Windows Embedded 8.1 Industry Pro, WE8S<br>Win 10 IoT 2016 |                                                                                   |

ACS-2330



unit:mm

Ordering information

| Model NO.           | Description                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2330 (Barebone) | Fanless Box PC, Intel® 6 <sup>th</sup> /7 <sup>th</sup> Core™ CPU, 2 x SO-DIMM DDR4 slots, 2 x 2.5" HDD spaces, 3 x mini-PCIe slots, DC 9~36V power input with adapter, Steel Chassis with Aluminum Heatsink |

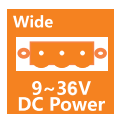


# ACS-2320A

I/O Expandable Fanless Box PC

Intel® Skylake-U Platform

- ACS-2320A- Intel® 6<sup>th</sup> Gen. Core i3/i5/i7 CPU Built-in
- Fanless Design
- Wide Range DC 9~36V Power Input
- Multi-Expansion Slot
- Easy Accessible Storage Design



Intel® Skylake-U Platform



Fanless Design



Wide Range DC 9~36V Power Input

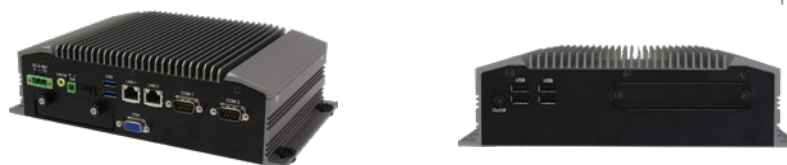


Multi-Expansion Slot



Easy Accessible Storage Design





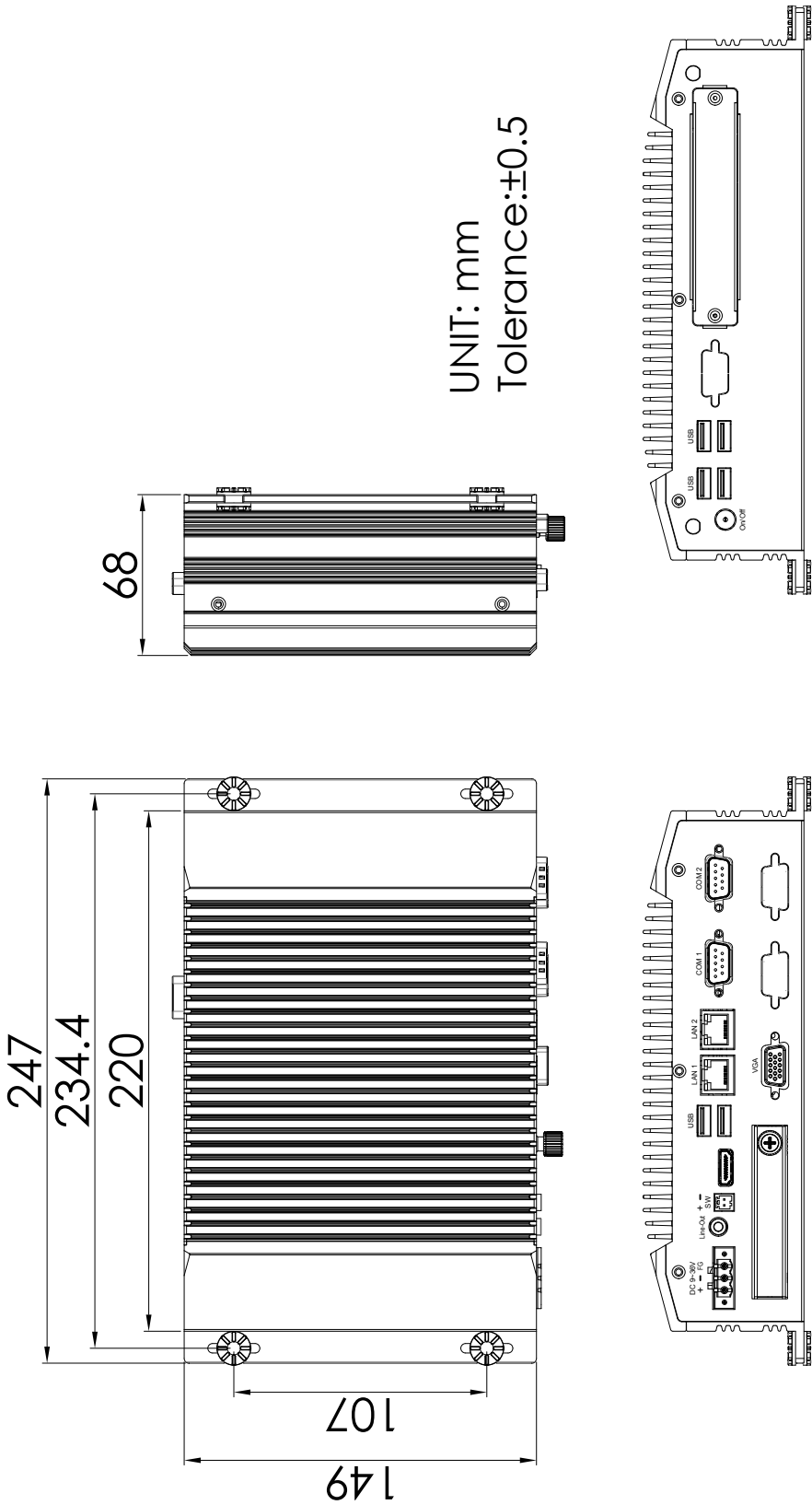
## Specifications

| Model Name                                                                                                                                               | ACS-2320A                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                                                                                                                                            |                                                                                                                                            |
| Processor                                                                                                                                                | Onboard 6th Generation<br>Intel Core i7-6600U(4M Cache,2.60 GHz),<br>i5-6300U(3M Cache,2.30 GHz),<br>i3-6100U Processor(3M Cache,2.30 GHz) |
| System Chipset                                                                                                                                           | SoC                                                                                                                                        |
| System Memory                                                                                                                                            | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                |
| <b>External I/O</b>                                                                                                                                      |                                                                                                                                            |
| USB                                                                                                                                                      | 4 x USB 2.0 type A<br>2 x USB 3.0 type A                                                                                                   |
| Serial/Parallel                                                                                                                                          | 1 x DB9 RS-232/422/485 (COM1), default RS-232<br>1 x RS-232 DB9, (COM2)                                                                    |
| LAN                                                                                                                                                      | 2 x GbE LAN RJ-45                                                                                                                          |
| Graph                                                                                                                                                    | 1 x VGA<br>1 x HDMI                                                                                                                        |
| Audio                                                                                                                                                    | 1 x Line-out                                                                                                                               |
| Digital I/O                                                                                                                                              | None                                                                                                                                       |
| Power connector                                                                                                                                          | 1 x 3-pin terminal block connector<br>1 x Power button with light                                                                          |
| <b>Storage Space</b>                                                                                                                                     |                                                                                                                                            |
| HDD                                                                                                                                                      | 1 x 2.5" SATA3 HDD Bay(Easy Accessible)                                                                                                    |
| <b>Expansion</b>                                                                                                                                         |                                                                                                                                            |
| Onboard expansion bus                                                                                                                                    | 1x mini PCIe slot(full size)                                                                                                               |
| Expansion slot                                                                                                                                           | None                                                                                                                                       |
| <b>Power</b>                                                                                                                                             |                                                                                                                                            |
| Power input                                                                                                                                              | DC 9~36V                                                                                                                                   |
| Power Consumption                                                                                                                                        | Max: 42.8W                                                                                                                                 |
| <b>Mechanical</b>                                                                                                                                        |                                                                                                                                            |
| Construction                                                                                                                                             | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                                            |
| IP rating                                                                                                                                                | IP30                                                                                                                                       |
| Mounting                                                                                                                                                 | Wall mount                                                                                                                                 |
| Dimension(mm)                                                                                                                                            | 247.6 x 149.8 x 68.6                                                                                                                       |
| Net weight(Kg)                                                                                                                                           | 2.5                                                                                                                                        |
| <b>Environment</b>                                                                                                                                       |                                                                                                                                            |
| Operating temperature(°C)                                                                                                                                | 0~50<br>(-20~60 for option)                                                                                                                |
| Storage temperature(°C)                                                                                                                                  | -30~70                                                                                                                                     |
| Humidity                                                                                                                                                 | 10 to 95% @ 40°C, non- condensing                                                                                                          |
| Certification                                                                                                                                            | CE/FCC Class A                                                                                                                             |
| <b>Operating System Support</b>                                                                                                                          |                                                                                                                                            |
| Windows 7 Pro for Embedded<br>Windows Embedded Standard 7<br>Windows Embedded 8.1 Industry Pro<br>Windows Embedded 8 Standard<br>Windows 10 IoT ENT LTSB |                                                                                                                                            |

# ACS-2320A

I/O Expandable Fanless Box PC

## ACS-2320A



unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2320A(Barebone) | Fanless Box PC, Intel® 6 <sup>th</sup> Core™ i3-6100U, 1 x SO-DIMM DDR4 slot, 1 x mini-PCIe slot full size, DC 9~36V power input with Adapter, Steel Chassis with Alminum Heatsink |





# ACS-2312

I/O Expandable Fanless Box PC

Rich I/O Connections & High Expansibility Box PC

- Intel® Celeron® Processor N2930 1.83GHz
- Fanless Design
- Wide Range DC 9~36V Power Input
- Easy Accessible Storage Design
- High Expansibility: 2 x PCIe x1 Slots



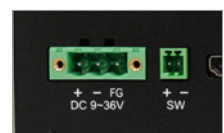
Intel® Celeron® Processor N2930 1.83GHz



Fanless Design



Wide Range DC 9~36V Power Input



High Expansibility: 2 x PCIe x1 Slots



Easy Accessible Storage Design



# ACS-2312

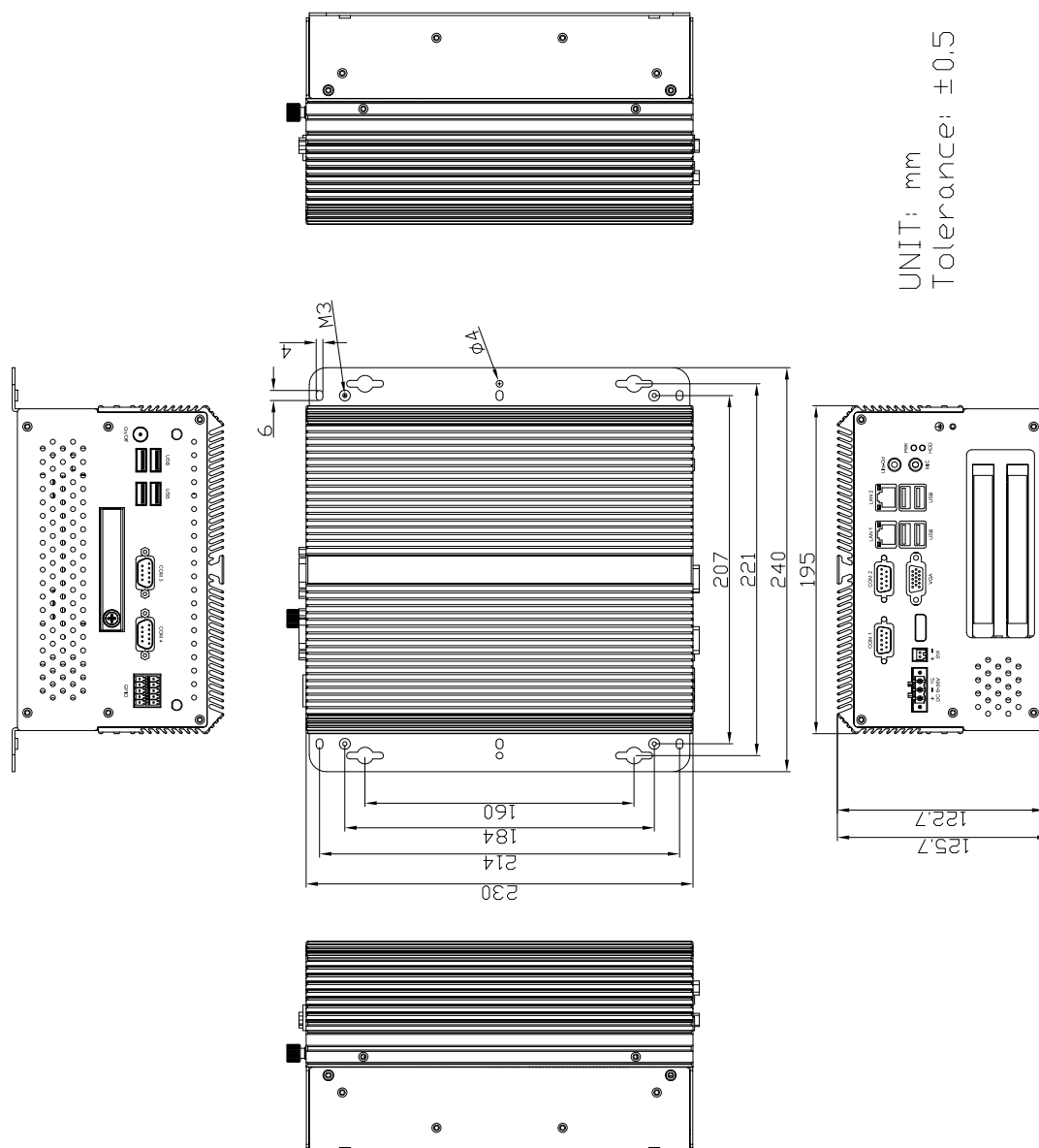
I/O Expandable Fanless Box PC



## Specifications

| Model Name                                                                                                                                                        | ACS-2312                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <strong>System</strong>                                                                                                                                           |                                                                                                                            |
| Processor                                                                                                                                                         | Onboard Intel Celeron N2930 Processor (2M Cache, 1.83GHz)                                                                  |
| System Chipset                                                                                                                                                    | SoC                                                                                                                        |
| System Memory                                                                                                                                                     | 2 x 204-pin SO-DIMM up to 8GB DDR3L 1333MHz                                                                                |
| <strong>External I/O</strong>                                                                                                                                     |                                                                                                                            |
| USB                                                                                                                                                               | 4 x USB 3.0 type A<br>4 x USB 2.0 type A                                                                                   |
| Serial/Parallel                                                                                                                                                   | 1 x RS-232/422/485 DB-9(COM1), default RS-232<br>2 x RS-232 DB-9 (COM2, COM4)<br>1 x RS-422/485 DB-9(COM3), default RS-422 |
| LAN                                                                                                                                                               | 2 x GbE LAN RJ-45                                                                                                          |
| Graph                                                                                                                                                             | 1 x VGA, 1 x HDMI                                                                                                          |
| Audio                                                                                                                                                             | 1 x Line-out, 1 x Mic-in                                                                                                   |
| Digital I/O                                                                                                                                                       | 1 x 8-bit GPIO (4 x DI, 4 x DO)                                                                                            |
| Power connector                                                                                                                                                   | 1 x 3-pin terminal block connector<br>1 x 2-pin power switch<br>1 x power button with light                                |
| <strong>Storage Space</strong>                                                                                                                                    |                                                                                                                            |
| HDD                                                                                                                                                               | 1 x 2.5" SATA2 HDD bay (Easy Accessible)                                                                                   |
| <strong>Expansion</strong>                                                                                                                                        |                                                                                                                            |
| Onboard expansion bus                                                                                                                                             | 1 x Mini-PCle slot full size<br>(USB2.0, LPC, SMBus Only, PCIe signal shared with riser expansion slot, selected by BIOS)  |
| Expansion slot                                                                                                                                                    | 2 x PCIe x1 slots                                                                                                          |
| <strong>Power</strong>                                                                                                                                            |                                                                                                                            |
| Power input                                                                                                                                                       | DC 9~36V                                                                                                                   |
| Power Consumption                                                                                                                                                 | Max: 22.4W                                                                                                                 |
| <strong>Mechanical</strong>                                                                                                                                       |                                                                                                                            |
| Construction                                                                                                                                                      | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                            |
| IP rating                                                                                                                                                         | IP20                                                                                                                       |
| Mounting                                                                                                                                                          | Wall mount                                                                                                                 |
| Dimension(mm)                                                                                                                                                     | 230 x 195 x 125.7                                                                                                          |
| Net weight(Kg)                                                                                                                                                    | 4.3                                                                                                                        |
| <strong>Environment</strong>                                                                                                                                      |                                                                                                                            |
| Operating temperature(°C)                                                                                                                                         | 0~50<br>(-20~60 for option)                                                                                                |
| Storage temperature(°C)                                                                                                                                           | -30~70                                                                                                                     |
| Humidity                                                                                                                                                          | 10 to 95% @ 40°C, non- condensing                                                                                          |
| Certification                                                                                                                                                     | CE/FCC Class A                                                                                                             |
| <strong>Operating System Support</strong>                                                                                                                         |                                                                                                                            |
| Windows 7 Pro for Embedded, Windows Embedded Standard 7,<br>Windows Embedded 8.1 Industry Pro, Windows Embedded 8 Standard,<br>Windows 10 IoT ENT 2016 LTSC Entry |                                                                                                                            |

## ACS-2312



unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2312 (Barebone) | Fanless Box PC, Intel® Celeron® N2930 CPU, 2 x SO-DIMM DDR3L 1333MHz slot, up to 8GB, 1 x mini-PCIe slot full size, DC 9~36V power input with Adapter, Steel Chassis with Alminum Heatsink |

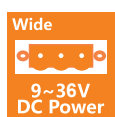


# ACS-2311

## Compact Size Fanless Box PC

### Compact Size & Rich I/O Connections Box PC

- Intel® Celeron® Processor N2930 1.83GHz
- Compact Size Design
- Fanless Design
- Wide Range DC 9~36V Power Input



Intel® Celeron® Processor N2930 1.83GHz



Fanless Design



Wide Range DC 9~36V Power Input



All solid capacitors motherboard



Support Wide Temperature-20~60°C





## Specifications

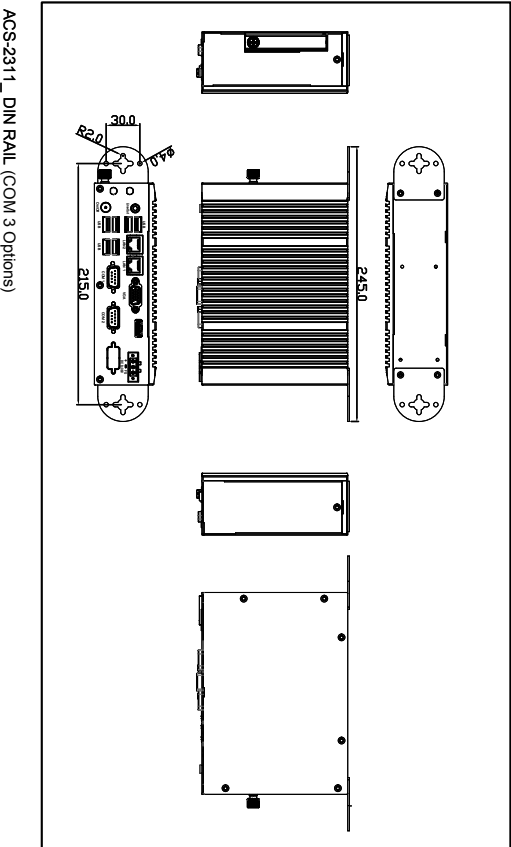
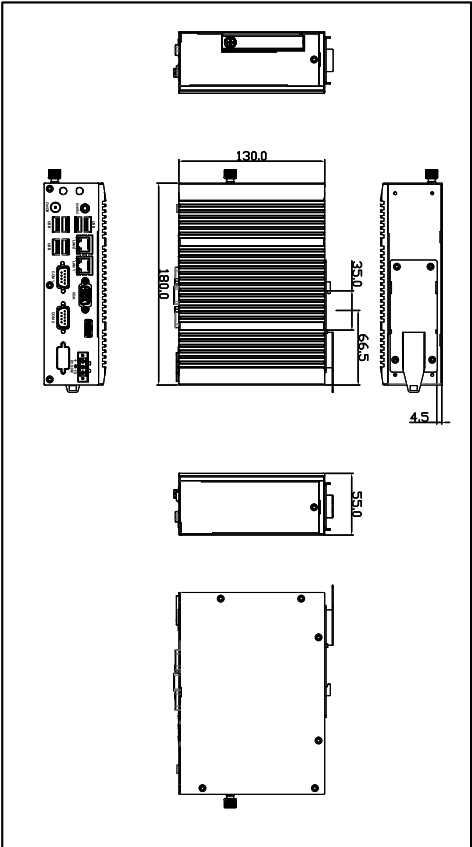
| Model Name                                                                                                                                                      | ACS-2311                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                                                                                                                                                   |                                                                                                                           |
| Processor                                                                                                                                                       | Intel® Celeron® Processor N2930 1.83GHz                                                                                   |
| System Chipset                                                                                                                                                  | SoC                                                                                                                       |
| System Memory                                                                                                                                                   | 1 x SO-DIMM DDR3L 1333MHz, up to 8GB                                                                                      |
| <b>External I/O</b>                                                                                                                                             |                                                                                                                           |
| USB                                                                                                                                                             | 4 x USB 2.0 type A<br>2 x USB 3.0 type A                                                                                  |
| Serial/Parallel                                                                                                                                                 | 1 x RS-232/422/485 DB9 (COM1), default RS-232<br>1 x RS-232 DB9 (COM2)<br>1 x RS-232 DB9 (COM3) (option, GPIO either one) |
| LAN                                                                                                                                                             | 2 x GbE LAN RJ-45                                                                                                         |
| Graph                                                                                                                                                           | 1 x VGA<br>1 x HDMI                                                                                                       |
| Audio                                                                                                                                                           | 1 x Line-out                                                                                                              |
| Digital I/O                                                                                                                                                     | 1 x 8-bit GPIO (4 x DI, 4 x DO) (option, COM3 either one)                                                                 |
| Power connector                                                                                                                                                 | 1 x 3-pin terminal block connector<br>1 x power button with light                                                         |
| <b>Storage Space</b>                                                                                                                                            |                                                                                                                           |
| HDD                                                                                                                                                             | 1 x 2.5" SATA3 HDD bay (easy accessible)                                                                                  |
| <b>Expansion</b>                                                                                                                                                |                                                                                                                           |
| Onboard expansion bus                                                                                                                                           | 2 x Mini-PCIe (full size) one shared with mSATA                                                                           |
| Expansion slot                                                                                                                                                  | None                                                                                                                      |
| <b>Power</b>                                                                                                                                                    |                                                                                                                           |
| Power input                                                                                                                                                     | DC 9~36V                                                                                                                  |
| Power Consumption                                                                                                                                               | Max:17W                                                                                                                   |
| <b>Mechanical</b>                                                                                                                                               |                                                                                                                           |
| Construction                                                                                                                                                    | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                           |
| IP rating                                                                                                                                                       | IP30                                                                                                                      |
| Mounting                                                                                                                                                        | Wall mount, Din Rail mount(option)                                                                                        |
| Dimension(mm)                                                                                                                                                   | 180 x 130 x 55                                                                                                            |
| Net weight(Kg)                                                                                                                                                  | 1.3                                                                                                                       |
| <b>Environment</b>                                                                                                                                              |                                                                                                                           |
| Operating temperature(°C)                                                                                                                                       | 0~50 / -20~60 (option)                                                                                                    |
| Storage temperature(°C)                                                                                                                                         | -30~70                                                                                                                    |
| Humidity                                                                                                                                                        | 10 to 95% @ 40°C, non- condensing                                                                                         |
| Certification                                                                                                                                                   | CE/FCC Class A                                                                                                            |
| <b>Operating System Support</b>                                                                                                                                 |                                                                                                                           |
| Windows 7 Pro for Embedded, Windows Embedded Standard 7<br>Windows Embedded 8.1 Industry Pro, Windows Embedded 8 Standard<br>Windows 10 IoT ENT 2016 LTSB Entry |                                                                                                                           |



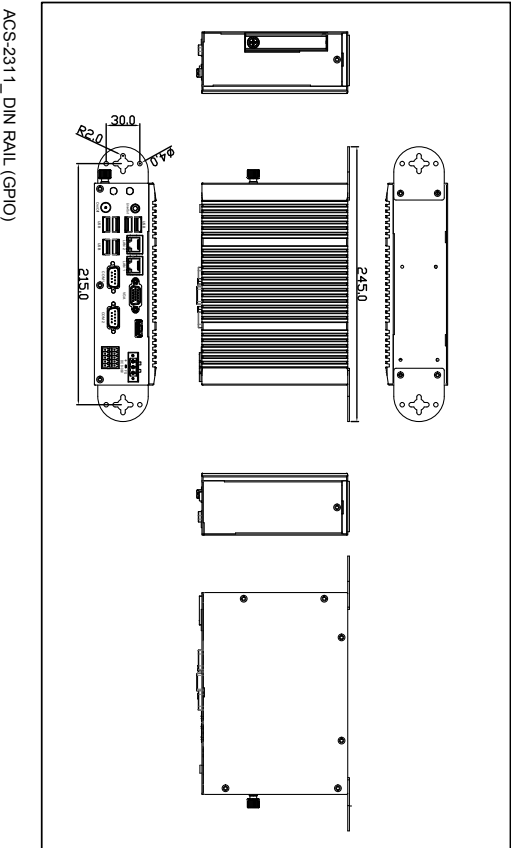
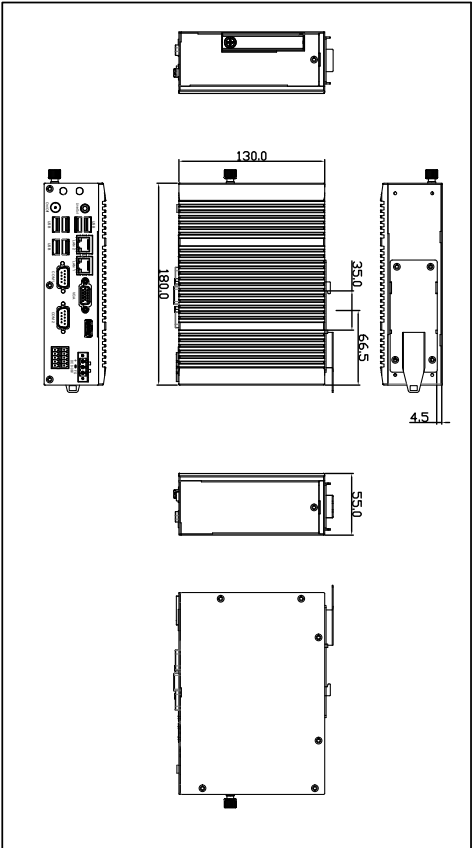
# ACS-2311

Compact Size Fanless Box PC

## ACS-2311



ACS-2311 \_ WALL MOUNT (COM 3 Options)



ACS-2311 \_ WALL MOUNT (GPIO)

unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2311 (Barebone) | Fanless Box PC, Intel Celeron N2930 CPU, 1 x SO-DIMM DDR3L 1333MHz, up to 8GB, 2 x mini-PCIe slot full size (one shared with mSATA), DC 9~36V power input with Adapter, Steel Chassis with Aluminum Heatsink |



# ACS-2310

## Slim Size Fanless Box PC

### Slim Size & Rich I/O Connections Box PC

- Intel® Celeron® Processor N2930 1.83GHz
- Ultra Slim Size
- Fanless Design
- Wide Range DC 9~36V Power Input



Intel® Celeron® Processor  
N2930 1.83GHz



Fanless Design



Wide Range DC 9~36V  
Power Input



All Solid Capacitors  
Motherboard



Ultra Slim Size



# ACS-2310

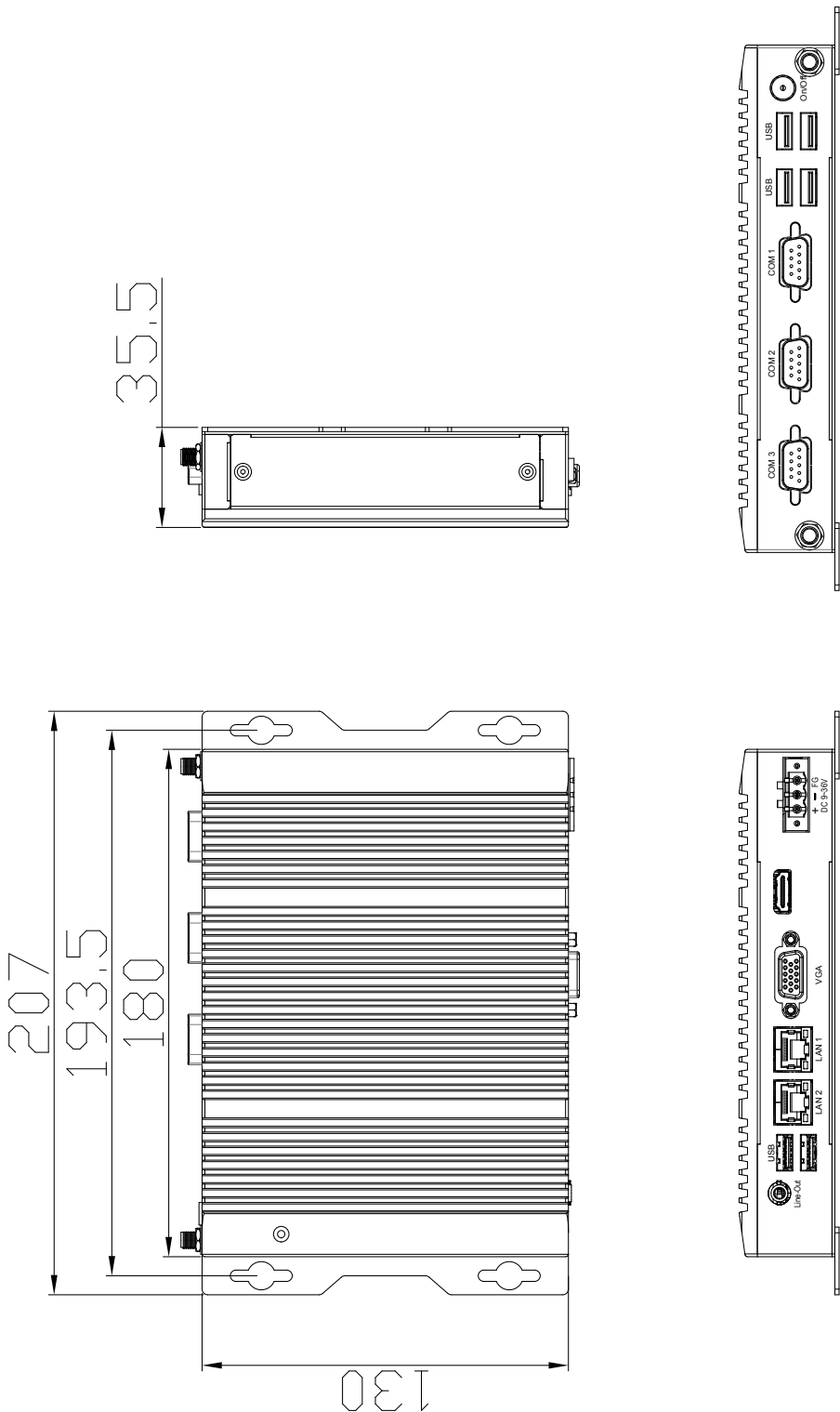
Slim Size Fanless Box PC



## Specifications

| Model Name                                                                                                                                                      | ACS-2310                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| System                                                                                                                                                          |                                                                                     |
| Processor                                                                                                                                                       | Intel® Celeron® Processor N2930 1.83GHz                                             |
| System Chipset                                                                                                                                                  | SoC                                                                                 |
| System Memory                                                                                                                                                   | 1 x SO-DIMM DDR3L 1333MHz, up to 8GB                                                |
| External I/O                                                                                                                                                    |                                                                                     |
| USB                                                                                                                                                             | 4 x USB 2.0 type A<br>2 x USB 3.0 type A                                            |
| Serial/Parallel                                                                                                                                                 | 1 x RS-232/422/485 DB-9, (COM1), default RS-232<br>2 x RS-232 DB-9, (COM2 and COM3) |
| LAN                                                                                                                                                             | 2 x GbE LAN RJ-45                                                                   |
| Graph                                                                                                                                                           | 1 x VGA<br>1 x HDMI                                                                 |
| Audio                                                                                                                                                           | 1 x Line-out                                                                        |
| Digital I/O                                                                                                                                                     | None                                                                                |
| Power connector                                                                                                                                                 | 1 x 3-pin terminal block connector<br>1 x power button with light                   |
| Storage Space                                                                                                                                                   |                                                                                     |
| HDD                                                                                                                                                             | 1 x 2.5" SATA2 HDD bay                                                              |
| Expansion                                                                                                                                                       |                                                                                     |
| Onboard expansion bus                                                                                                                                           | 2 x Mini-PCIe (full size) one shared with mSATA                                     |
| Expansion slot                                                                                                                                                  | None                                                                                |
| Power                                                                                                                                                           |                                                                                     |
| Power input                                                                                                                                                     | DC 9~36V                                                                            |
| Power Consumption                                                                                                                                               | Max:16.1W                                                                           |
| Mechanical                                                                                                                                                      |                                                                                     |
| Construction                                                                                                                                                    | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                     |
| IP rating                                                                                                                                                       | IP30                                                                                |
| Mounting                                                                                                                                                        | Wall mount                                                                          |
| Dimension(mm)                                                                                                                                                   | 207 x 130 x 35.5                                                                    |
| Net weight(Kg)                                                                                                                                                  | 1.0                                                                                 |
| Environment                                                                                                                                                     |                                                                                     |
| Operating temperature(°C)                                                                                                                                       | 0~50 / -20~60 (option)                                                              |
| Storage temperature(°C)                                                                                                                                         | -30~70                                                                              |
| Humidity                                                                                                                                                        | 10 to 95% @ 40°C, non- condensing                                                   |
| Certification                                                                                                                                                   | CE/FCC Class A                                                                      |
| Operating System Support                                                                                                                                        |                                                                                     |
| Windows 7 Pro for Embedded, Windows Embedded Standard 7<br>Windows Embedded 8.1 Industry Pro, Windows Embedded 8 Standard<br>Windows 10 IoT ENT 2016 LTSB Entry |                                                                                     |

ACS-2310



unit:mm

Ordering information

| Model NO.          | Description                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2310(Barebone) | Fanless Box PC, Intel® Celeron® N2930 CPU, 1 x SO-DIMM DDR3L 1333MHz, up to 8GB, 2 x mini-PCIe slot full size (one shared with mSATA), DC 9~36V power input with Adapter, Steel Chassis with Aluminum Heatsink |

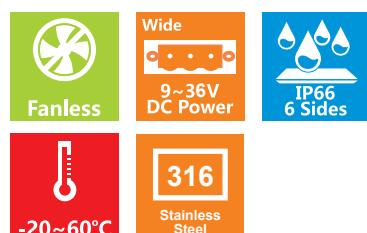


# AEx-2410 AEx-2411

Stainless Steel Box PC for Hazardous Locations

ATEX/IECEX/C1D2 Certified Box PC

- Intel Celeron N2930 & Intel 6<sup>th</sup> Gen. Core i5/i3 Processors
- WLAN for Option
- Fanless Design
- Total IP66 Grade with M12 Waterproof connector
- Wide range DC 9~36V Power Input
- Support VESA & Wall mount



SUS 316 Stainless steel



Total IP66 Grade  
with M12 Waterproof  
connector



Variety of IO applications



Wide range DC 9~36V  
Power Input







## Specifications

| Model Name                      | AEx-2410                                                                                                                                                                                                                                                                          |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                   |                                                                                                                                                                                                                                                                                   |
| Processor                       | Onboard Intel Celeron N2930 Processor(2M Cache,1.83GHz)                                                                                                                                                                                                                           |
| System Chipset                  | SoC                                                                                                                                                                                                                                                                               |
| System Memory                   | Onboard 4GB DDR3L SDRAM<br>Onboard 8GB DDR3L SDRAM (option)                                                                                                                                                                                                                       |
| <b>External I/O</b>             |                                                                                                                                                                                                                                                                                   |
| USB                             | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |
| Serial/Parallel                 | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |
| LAN                             | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |
| Graph                           | 1 x M12 12-pin for VGA with waterproof cover and chain                                                                                                                                                                                                                            |
| Power connector                 | 1 x M12 3-pin for DC power with waterproof cover and chain                                                                                                                                                                                                                        |
| <b>Storage Space</b>            |                                                                                                                                                                                                                                                                                   |
| HDD                             | 1 x 2.5" HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |
| Movable device                  | 1 x internal SD card slot onboard                                                                                                                                                                                                                                                 |
| <b>Expansion</b>                |                                                                                                                                                                                                                                                                                   |
| Onboard expansion bus           | 1 x Mini-PCle slot (full size) for option WLAN/BT module                                                                                                                                                                                                                          |
| <b>Power</b>                    |                                                                                                                                                                                                                                                                                   |
| Power input                     | DC 9~36V                                                                                                                                                                                                                                                                          |
| Power Consumption               | Max: 9W                                                                                                                                                                                                                                                                           |
| <b>Mechanical</b>               |                                                                                                                                                                                                                                                                                   |
| Construction                    | 316 stainless steel chassis                                                                                                                                                                                                                                                       |
| IP rating                       | Total IP66                                                                                                                                                                                                                                                                        |
| Mounting                        | VESA mount 100 x 100, Wall mount                                                                                                                                                                                                                                                  |
| Dimension(mm)                   | 334 x 195 x 38.5                                                                                                                                                                                                                                                                  |
| Net weight(Kg)                  | 3.79                                                                                                                                                                                                                                                                              |
| <b>Environment</b>              |                                                                                                                                                                                                                                                                                   |
| Operating temperature(°C)       | -20~60                                                                                                                                                                                                                                                                            |
| Storage temperature(°C)         | -30~70                                                                                                                                                                                                                                                                            |
| Humidity                        | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |
| Safety                          | Meet CSA C22.2 No.61010                                                                                                                                                                                                                                                           |
| Certification                   | CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |
| <b>Operating System Support</b> |                                                                                                                                                                                                                                                                                   |
| Windows 10 IoT ENT LTSC         |                                                                                                                                                                                                                                                                                   |

# AEx-2410/AEx-2411

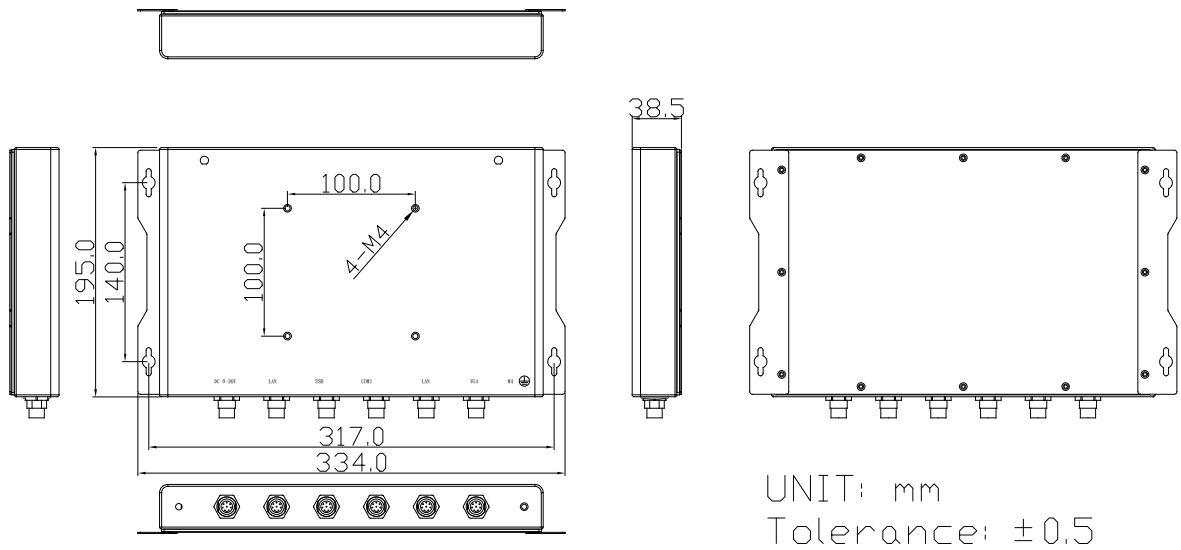
ATEX/IECEX/C1D2 Certified Box PC



## Specifications

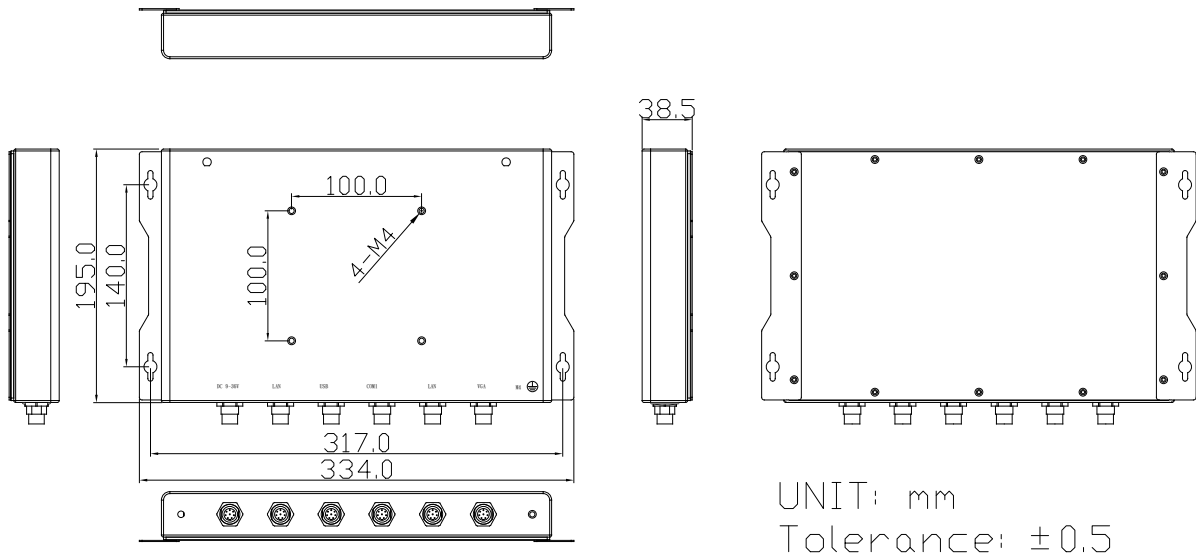
| Model Name                | AEx-2411                                                                                                                                                                                                                                                                          |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                    |                                                                                                                                                                                                                                                                                   |
| Processor                 | Onboard 6th Gen. Intel Core i3/i5 Processors                                                                                                                                                                                                                                      |
| System Chipset            | SoC                                                                                                                                                                                                                                                                               |
| System Memory             | 1 x 260-pin SO-DIMM up to 16GB DDR4 2133MHz                                                                                                                                                                                                                                       |
| External I/O              |                                                                                                                                                                                                                                                                                   |
| USB                       | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                     |
| Serial/Parallel           | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain                                                                                                                                                                                           |
| LAN                       | 1 x M12 12-pin for VGA with waterproof cover and chain                                                                                                                                                                                                                            |
| Graph                     | 2 x M12 8-pin for LAN with waterproof cover and chain                                                                                                                                                                                                                             |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover and chain                                                                                                                                                                                                                        |
| Storage Space             |                                                                                                                                                                                                                                                                                   |
| HDD                       | 1 x 2.5" HDD or SSD space<br>1 x mSATA space                                                                                                                                                                                                                                      |
| Movable device            | None                                                                                                                                                                                                                                                                              |
| Expansion                 |                                                                                                                                                                                                                                                                                   |
| Onboard expansion bus     | 1 x Mini-PCIe slot (full size) for option WLAN/BT module                                                                                                                                                                                                                          |
| Power                     |                                                                                                                                                                                                                                                                                   |
| Power input               | DC 9~36V                                                                                                                                                                                                                                                                          |
| Power Consumption         | Max: 13W                                                                                                                                                                                                                                                                          |
| Mechanical                |                                                                                                                                                                                                                                                                                   |
| Construction              | 316 Stainless Steel                                                                                                                                                                                                                                                               |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                        |
| Mounting                  | VESA mount 100 x 100, Wall mount                                                                                                                                                                                                                                                  |
| Dimension(mm)             | 334 x 195 x 38.5                                                                                                                                                                                                                                                                  |
| Net weight(Kg)            | 4.0                                                                                                                                                                                                                                                                               |
| Environment               |                                                                                                                                                                                                                                                                                   |
| Operating temperature(°C) | -20~60                                                                                                                                                                                                                                                                            |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                            |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                 |
| Safety                    | Meet CSA C22.2 No.61010                                                                                                                                                                                                                                                           |
| Certification             | CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |
| Operating System Support  |                                                                                                                                                                                                                                                                                   |
| Windows 10 IoT ENT LTSC   |                                                                                                                                                                                                                                                                                   |

AEx-2410



unit:mm

AEX-2411



unit:mm

Ordering information

| Model NO. | Description                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------|
| AEX-2410  | Fanless Box PC, Intel N2930 CPU, 4GB DDR3 RAM, VGA output, DC 9~36V power input, SS316                            |
| AEX-2411  | Fanless Box PC, Intel 6 <sup>th</sup> Core i CPU, 1 x SO-DIMM DDR4 slots, VGA output, DC 9~36V power input, SS316 |

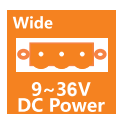


# ACS-2170

## Ultra Slim Fanless Box PC

### Space-Saving and Rich Connections

- Intel Baytrail Platform
- Onboard 2GB/4GB DDR3L Memory
- Ultra Slim Size and Fanless Design
- Wide Range DC 9~36V Power Input



Support Din-rail  
Mounting



Fanless Design



Wide Range DC 9~36V  
Power Input



Easy Accessible Storage  
Design



Ultra Slim Size





## Specifications

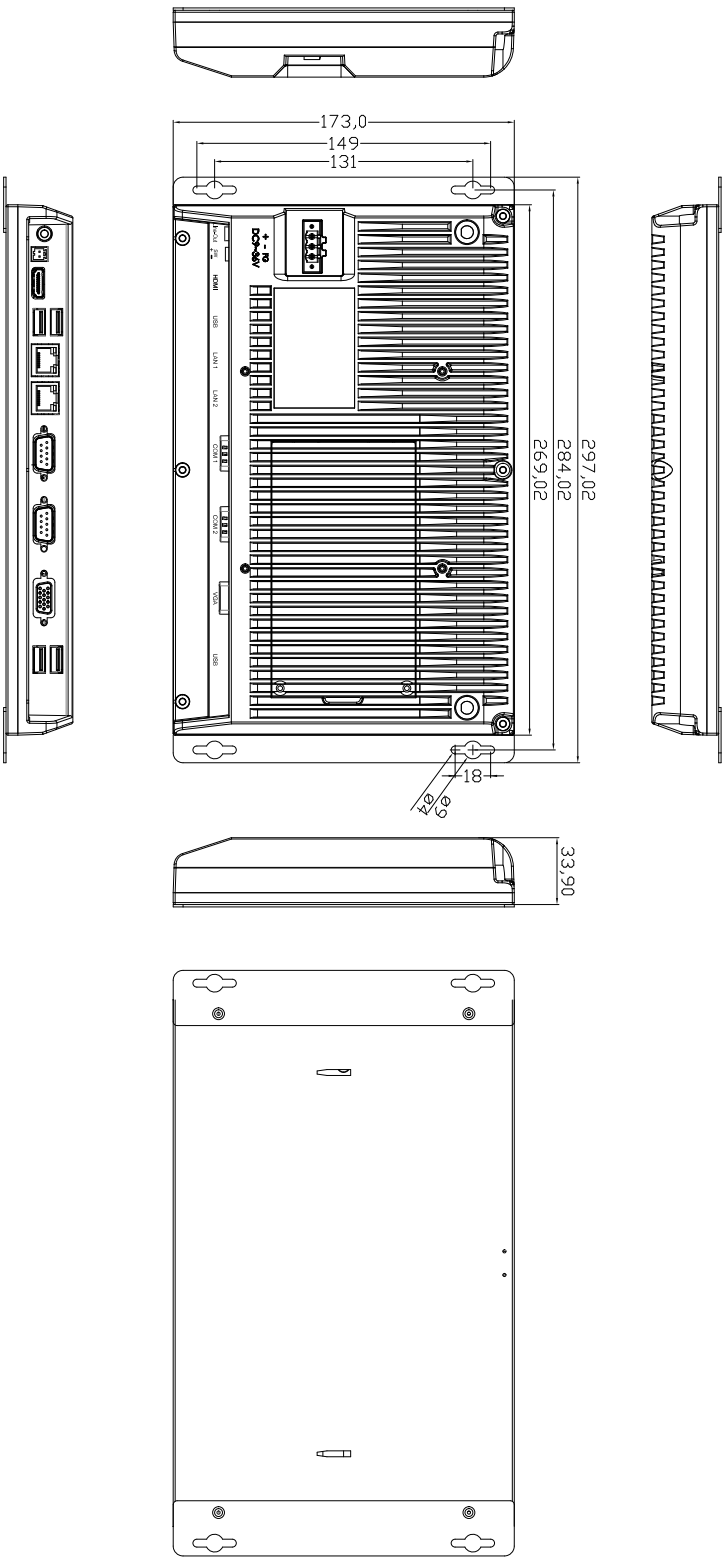
| Model Name                                                                                                     | ACS-2170                                                                 |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>System</b>                                                                                                  |                                                                          |
| Processor                                                                                                      | Intel Celeron N2930 1.83GHz Processor                                    |
| System Chipset                                                                                                 | SoC                                                                      |
| System Memory                                                                                                  | Onboard 2GB DDR3L 1600MHz, (4GB Option)                                  |
| <b>External I/O</b>                                                                                            |                                                                          |
| USB                                                                                                            | 3 x USB 2.0 type A<br>1 x USB 3.0 type A                                 |
| Serial/Parallel                                                                                                | 1 x RS-232 DB9, (COM2)<br>1 x RS-232/422/485, DB9 (COM1), Default RS-232 |
| LAN                                                                                                            | 2 x GbE LAN RJ-45 by Intel 82574L                                        |
| Graph                                                                                                          | 1 x VGA                                                                  |
| Audio                                                                                                          | 1 x Line-out                                                             |
| Digital I/O                                                                                                    | None                                                                     |
| Power connector                                                                                                | 1 x 3-pin terminal block connector<br>1 x 2-pin power switch connector   |
| <b>Storage Space</b>                                                                                           |                                                                          |
| HDD                                                                                                            | 1 x 2.5" SATA2 HDD bay (Easy Accessible)                                 |
| Movable device                                                                                                 | 1 x SD card slot, up to 32GB                                             |
| <b>Expansion</b>                                                                                               |                                                                          |
| Onboard expansion bus                                                                                          | 1 x mini PCIe slot (full Size)                                           |
| Expansion slot                                                                                                 | None                                                                     |
| <b>Power</b>                                                                                                   |                                                                          |
| Power input                                                                                                    | DC 9~36V                                                                 |
| Power Consumption                                                                                              | Max:8.54W                                                                |
| <b>Mechanical</b>                                                                                              |                                                                          |
| Construction                                                                                                   | Aluminum chassis                                                         |
| IP rating                                                                                                      | IP20                                                                     |
| Mounting                                                                                                       | Wall mount, VESA Mount 100x100, Din-Rail mount(option)                   |
| Dimension(mm)                                                                                                  | 297 x 173 x 33.9                                                         |
| Net weight(Kg)                                                                                                 | 1.6                                                                      |
| <b>Environment</b>                                                                                             |                                                                          |
| Operating temperature(°C)                                                                                      | -20~60                                                                   |
| Storage temperature(°C)                                                                                        | -40~85                                                                   |
| Humidity                                                                                                       | 10 to 95% @ 40°C, non- condensing                                        |
| Certification                                                                                                  | CE/FCC Class A                                                           |
| <b>Operating System Support</b>                                                                                |                                                                          |
| Windows Embedded 8.1 Industry Pro, Windows 7 Pro for Embedded, WE7, WE8S<br>Windows 10 IOT ENT 2016 LTSB Entry |                                                                          |



# ACS-2170

Ultra Slim Fanless Box PC

## ACS-2170



unit:mm

## Ordering information

| Model NO.   | Description                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2170-01 | Fanless Box PC, Intel Celeron N2930 1.83G processor, 2GB DDR3L Memory, 16GB MMC SSD, mini PCIe slot(full size), 9~36V DC input with Adapter |

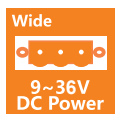


# ACS-2702A

IP67 Waterproof Stainless Steel Box PC

Intel® Celeron N2930 Platform

- Intel® Celeron N2930 Platform
- IP67 Waterproof with M12 Connector
- Wide Range DC 9~36V Power Input
- Fanless Design
- Rugged Stainless Steel Box PC
- Anti-Shock and Anti-Vibration Design



IP67 Waterproof  
with M12 Connector



Fanless Design  
Rugged Stainless Steel  
Box PC



Wide Range DC 9~36V  
Power Input



Waterproof Power Button



Anti-shock and  
Anti-vibration design



# ACS-2702A

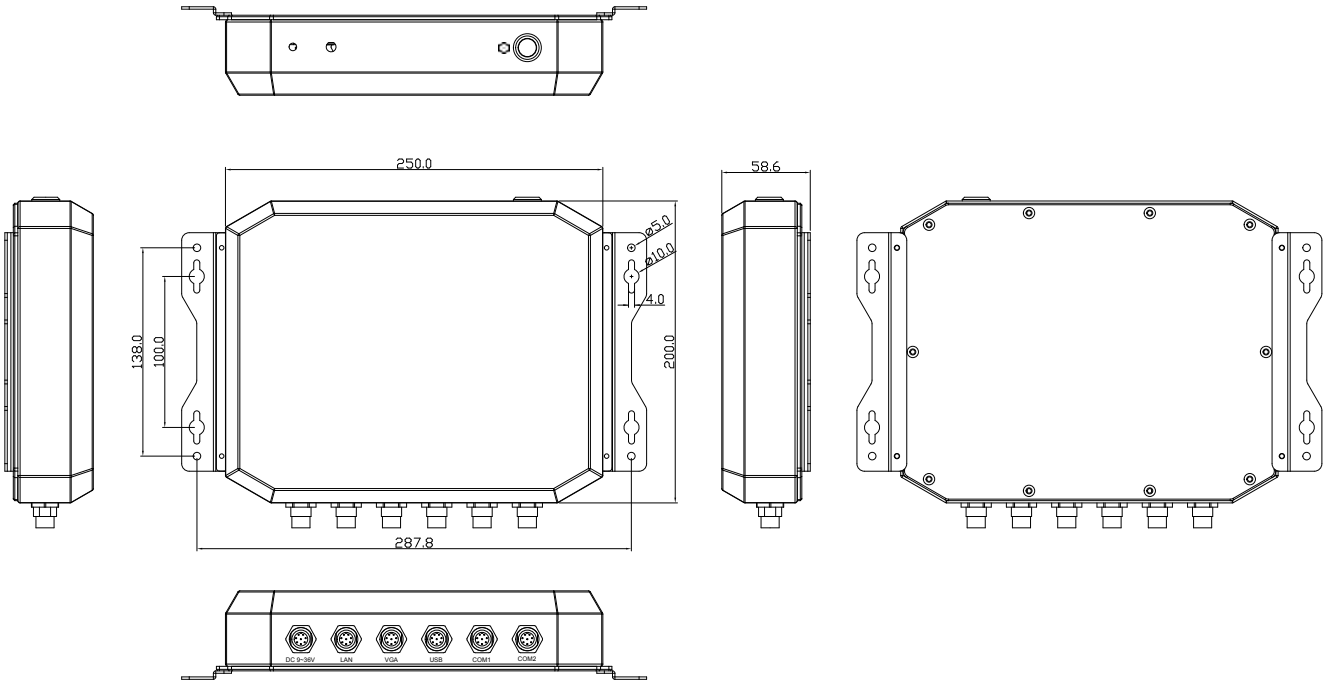
IP67 Waterproof Stainless Steel Box PC



## Specifications

| Model Name                                                                                                       | ACS-2702A                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                                                                                                           |                                                                                                                                                            |
| Processor                                                                                                        | Intel Celeron N2930(1.83GHz) built-in / Atom E3845(1.91GHz) (option)                                                                                       |
| System Chipset                                                                                                   | SoC                                                                                                                                                        |
| System Memory                                                                                                    | Onboard 4GB DDR3L 1600 MHz                                                                                                                                 |
| External I/O                                                                                                     |                                                                                                                                                            |
| USB                                                                                                              | 1 x M12 8-pin for 2 x USB 2.0 with waterproof cover and chain                                                                                              |
| Serial/Parallel                                                                                                  | 1 x M12 8-pin for COM1, RS-232/422/485, default RS-232, with waterproof cover and chain<br>1 x M12 8-pin for COM2, RS-232, with waterproof cover and chain |
| LAN                                                                                                              | 1 x M12 8-pin for LAN with waterproof cover and chain                                                                                                      |
| Graph                                                                                                            | 1 x M12 12-pin for VGA with waterproof cover and chain                                                                                                     |
| Audio                                                                                                            | None                                                                                                                                                       |
| Digital I/O                                                                                                      | None                                                                                                                                                       |
| Power connector                                                                                                  | 1 x M12 3-pin for DC power with waterproof cover and chain                                                                                                 |
| Storage Space                                                                                                    |                                                                                                                                                            |
| HDD                                                                                                              | 1 x 2.5" SATA2 HDD space                                                                                                                                   |
| Movable device                                                                                                   | 1 x Internal SD slot, up to 32GB                                                                                                                           |
| Expansion                                                                                                        |                                                                                                                                                            |
| Onboard expansion bus                                                                                            | 1 x Mini-PCIe slot (full size)                                                                                                                             |
| Expansion slot                                                                                                   | None                                                                                                                                                       |
| Power                                                                                                            |                                                                                                                                                            |
| Power input                                                                                                      | DC 9~36V                                                                                                                                                   |
| Power Consumption                                                                                                | Max: 7.76W                                                                                                                                                 |
| Mechanical                                                                                                       |                                                                                                                                                            |
| Construction                                                                                                     | 304 stainless steel chassis                                                                                                                                |
| IP rating                                                                                                        | Total IP67                                                                                                                                                 |
| Mounting                                                                                                         | Wall mount                                                                                                                                                 |
| Dimension(mm)                                                                                                    | 200 x 250 x 53                                                                                                                                             |
| Net weight(Kg)                                                                                                   | 3.2                                                                                                                                                        |
| Environment                                                                                                      |                                                                                                                                                            |
| Operating temperature(°C)                                                                                        | -20~60                                                                                                                                                     |
| Storage temperature(°C)                                                                                          | -40~85                                                                                                                                                     |
| Humidity                                                                                                         | 10 to 95% @ 40°C, non- condensing                                                                                                                          |
| Certification                                                                                                    | CE/FCC Class A                                                                                                                                             |
| Operating System Support                                                                                         |                                                                                                                                                            |
| Windows Embedded 8.1 Industry Pro, Windows 7 Pro for Embedded, WES 7, WE8S<br>Windows 10 IOT ENT 2016 LTSB Entry |                                                                                                                                                            |

ACS-2702A



unit:mm

Ordering information

| Model NO.    | Description                                                                                                                                                   |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACS-2702A-01 | IP67 Waterproof fanless box pc, Intel Atom N2930 CPU, 4GB DDR3L RAM on board, 32GB MLC SSD,9~36V DC power input with Adapter, stainless steel enclosure, WT1. |



# Quick Guide Machine Vision System

| Model Name        | AVS-700                             | AVS-600                             | AVS-520                                | AVS-520QL                    |
|-------------------|-------------------------------------|-------------------------------------|----------------------------------------|------------------------------|
| CPU               | 9th Gen. Intel Core i7/i5/i3 Xeon E | 9th Gen. Intel Core i7/i5/i3 Xeon E | 7th Gen. Intel Core i7/i5/i3 Processor | 9th Gen. Intel Core i7/i5/i3 |
| Memory            | 4 x DDR4 SO-DIMM                    | 2 x DDR4 SO-DIMM                    | 2 x DDR4 SO-DIMM                       | 2 x DDR4 SO-DIMM             |
| Fanless           | No                                  | No                                  | Yes                                    | Yes                          |
| Expansion Slot    | Yes                                 | Yes                                 | No                                     | No                           |
| Dual Display      | Yes                                 | Yes                                 | Yes                                    | Yes                          |
| HDD Space         | 4 x 2.5"                            | 4 x 2.5"                            | 2 x 2.5"                               | 2 x 2.5"                     |
| Din rail mounting | No                                  | No                                  | Yes                                    | Yes                          |

| Model Name        | AVS-522                      | AVS-522QL                    | AVS-524                      | AVS-524QL                    |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| CPU               | 9th Gen. Intel Core i7/i5/i3 | 9th Gen. Intel Core i7/i5/i3 | 9th Gen. Intel Core i7/i5/i3 | 9th Gen. Intel Core i7/i5/i3 |
| Memory            | 2 x DDR4 SO-DIMM             | 2 x DDR4 SO-DIMM             | 2 x DDR4 SO-DIMM             | 2 x DDR4 SO-DIMM             |
| Fanless           | Yes                          | Yes                          | Yes                          | Yes                          |
| Expansion Slot    | 2                            | 2                            | 4                            | 4                            |
| Dual Display      | Yes                          | Yes                          | Yes                          | Yes                          |
| HDD Space         | 2 x 2.5"                     | 2 x 2.5"                     | 2 x 2.5"                     | 2 x 2.5"                     |
| Din rail mounting | Yes                          | Yes                          | Yes                          | Yes                          |

| Model Name        | AVS-500                      | AVS-502                      | AVS-504                      | AVS-300             |
|-------------------|------------------------------|------------------------------|------------------------------|---------------------|
| CPU               | 7th Gen. Intel Core i7/i5/i3 | 7th Gen. Intel Core i7/i5/i3 | 7th Gen. Intel Core i7/i5/i3 | Intel Celeron J1900 |
| Memory            | 2 x DDR4 SO-DIMM             | 2 x DDR4 SO-DIMM             | 2 x DDR4 SO-DIMM             | 1 x SO-DIMM DDR3L   |
| Fanless           | Yes                          | Yes                          | Yes                          | Yes                 |
| Expansion Slot    | No                           | 2                            | 4                            | No                  |
| Dual Display      | Yes                          | Yes                          | Yes                          | No                  |
| HDD Space         | 2 x 2.5"                     | 2 x 2.5"                     | 2 x 2.5"                     | 1 x 2.5"            |
| Din rail mounting | Yes                          | Yes                          | Yes                          | No                  |

| Model Name        | AVS-301             | AVS-302             | AVS-310             | AVS-313             |
|-------------------|---------------------|---------------------|---------------------|---------------------|
| CPU               | Intel Celeron J1900 | Intel Celeron J1900 | Intel Celeron J1900 | Intel Celeron J1900 |
| Memory            | 1 x SO-DIMM DDR3L   | 1 x SO-DIMM DDR3L   | 1 x SO-DIMM DDR3L   | 1 x SO-DIMM DDR3L   |
| Fanless           | Yes                 | Yes                 | Yes                 | Yes                 |
| Expansion Slot    | No                  | No                  | No                  | No                  |
| Dual Display      | Yes                 | Yes                 | Yes                 | Yes                 |
| HDD Space         | 1 x 2.5"            | 1 x 2.5"            | 1 x 2.5"            | 1 x 2.5"            |
| Din rail mounting | No                  | No                  | Yes                 | Yes                 |
| Lighting control  | No                  | No                  | No                  | Yes                 |
| Trigger           | No                  | No                  | Yes                 | Yes                 |



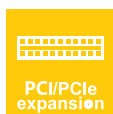


# AVS-700

## Machine Vision Application System

### 9th Gen. Intel Core i7/i5/i3 Processor

- 9th Gen. Intel Core i7/i5/i3, Xeon® E-Processors
- 4 x 288-pin DDR4 ECC DIMM memory, up to 128GB
- Up to 1 x 3.5"/2.5" SATA Drive bay and 3 x Optical Drive bays
- 4U Rackmount Chassis for ATX/microATX Motherboard
- Supports 7 Expansion slots
- Front-accessible System Fan and USB Interfaces



9th Gen. Intel Core  
i7/i5/i3 and Xeon®  
E-Processors



Supports 7 Expansion  
slots



Front-accessible System  
Fan and USB Interfaces



Up to 1 x 3.5"/2.5" SATA  
Drive bay and 3 x Optical  
Drive bays



4U Rackmount Chassis  
for ATX/microATX  
Motherboard



# AVS-700 Series

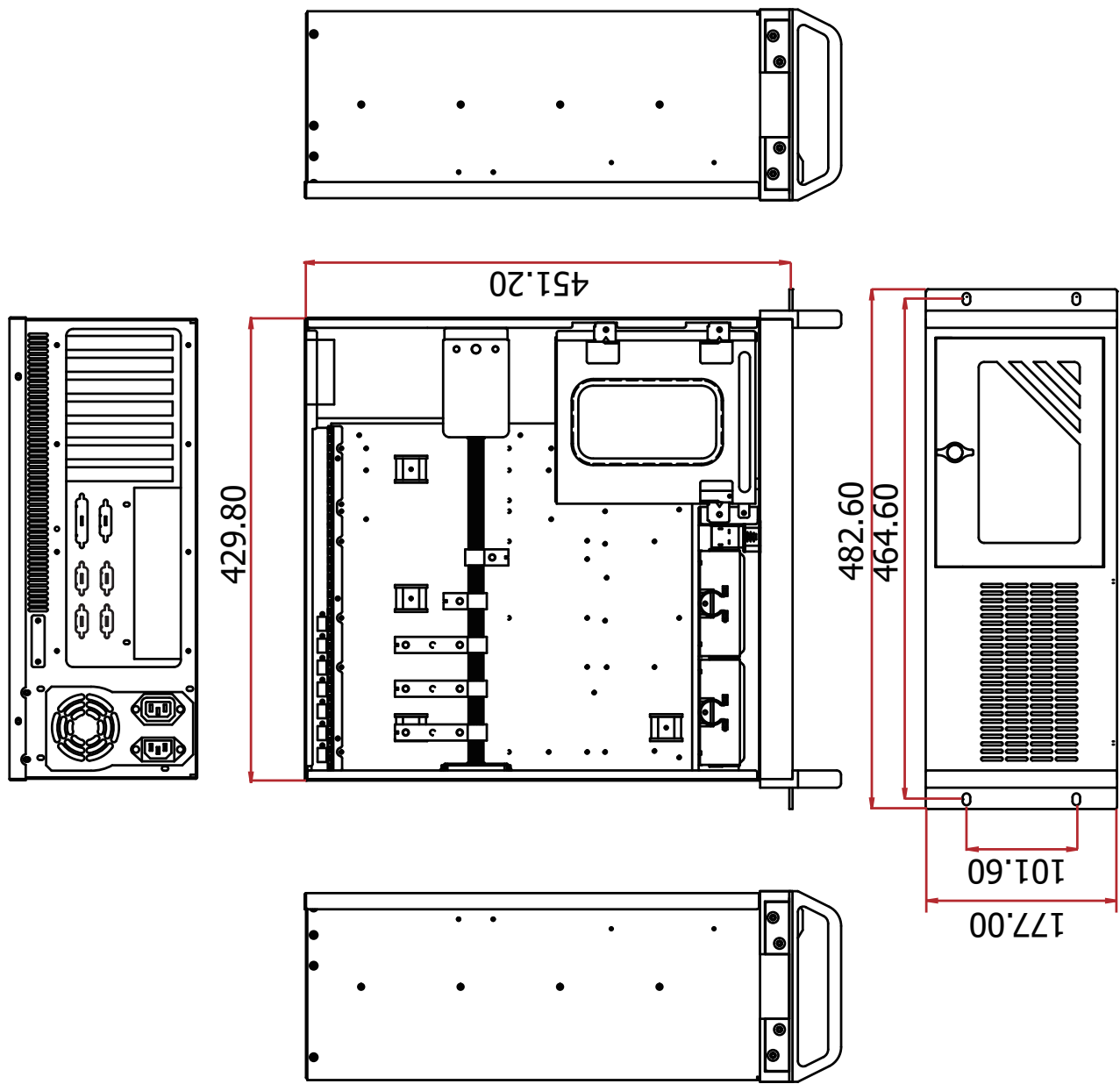
Machine Vision Application System



## Specifications

| Model Name                                | AVS-700                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------|
| <strong>System</strong>                   |                                                                                |
| Processor                                 | 9th Gen. Intel Core i7/i5/i3 Processor, Xeon® E Processor                      |
| System Chipset                            | C246                                                                           |
| System Memory                             | 4 x 288-pin DDR4 ECC DIMM memory, up to 128GB                                  |
| <strong>External I/O</strong>             |                                                                                |
| USB                                       | 4 x USB 3.0, type A<br>2 x USB 2.0, type A<br>2 x USB2.0, Type A (Front Panel) |
| Serial/Parallel                           | 1 x RS-232/422/485, DB-9 (RS-232 w/ power)                                     |
| LAN                                       | 2 x GbE LAN, RJ-45                                                             |
| Graph                                     | 1 x VGA<br>2 x DP                                                              |
| Audio                                     | 1 x Line-out<br>1 x Mic-in                                                     |
| Digital I/O                               | 1 x 8-bit GPIO                                                                 |
| Power connector                           | 1 x AC IN<br>1 x power switch                                                  |
| <strong>Storage Space</strong>            |                                                                                |
| HDD                                       | 4 x 2.5" SATAIII HDD/SSD (support RAID 0/1/5/10)                               |
| <strong>Expansion</strong>                |                                                                                |
| Onboard expansion bus                     | 1 x full size Mini-PCIe slot<br>1 x M.2 M key 2280/2242 support NVMe           |
| Expansion slot                            | 1 x PCIe-16, 3 x PCIe-4, 2 x PCI                                               |
| <strong>Power</strong>                    |                                                                                |
| Power input                               | 500W PSU AC 100V~220V                                                          |
| Power Consumption                         | Max: 150W                                                                      |
| Support Expansion                         | Max: 75W@12V                                                                   |
| <strong>Mechanical</strong>               |                                                                                |
| Construction                              | SECC                                                                           |
| Mounting                                  | Rack mount                                                                     |
| Dimension(mm)                             | 173.6x 429x 451.2                                                              |
| Net weight(Kg)                            | 15.34                                                                          |
| <strong>Environment</strong>              |                                                                                |
| Operating temperature(°C)                 | 0~40                                                                           |
| Storage temperature(°C)                   | -20~60                                                                         |
| Humidity                                  | 0 to 90% @ 40°C, non- condensing                                               |
| Certification                             | Meet CE/FCC Class A, RoHs                                                      |
| <strong>Operating System Support</strong> |                                                                                |
| Microsoft® Win10 IoT                      |                                                                                |

AVS-700



unit:mm



# AVS-600

## Machine Vision Application System

### 9th Gen. Intel Core i7/i5/i3 Processor

- 9th Gen. Intel Core i7/i5/i3 Processor, Xeon® E Processor
- 2 x 260-pin DDR4 SO-DIMM memory, up to 64GB
- Removable drive-bays for easy data storage maintenance
- Support extensive GPU card expansion
- Flexible expansion through I/O module and Add-on card
- Mainboard CPU and GPU card expansion with smart fan support

9th Gen. Intel Core i7/i5/  
i3 Processor, Xeon® E  
Processor



Removable drive-bays  
for easy data storage  
maintenance



Mainboard CPU and  
GPU card expansion  
with smart fan support



Support up to 4  
expansion slots



Support add-on GPU  
graphic cards and LAN/  
PoE/USB3.0 I/O cards





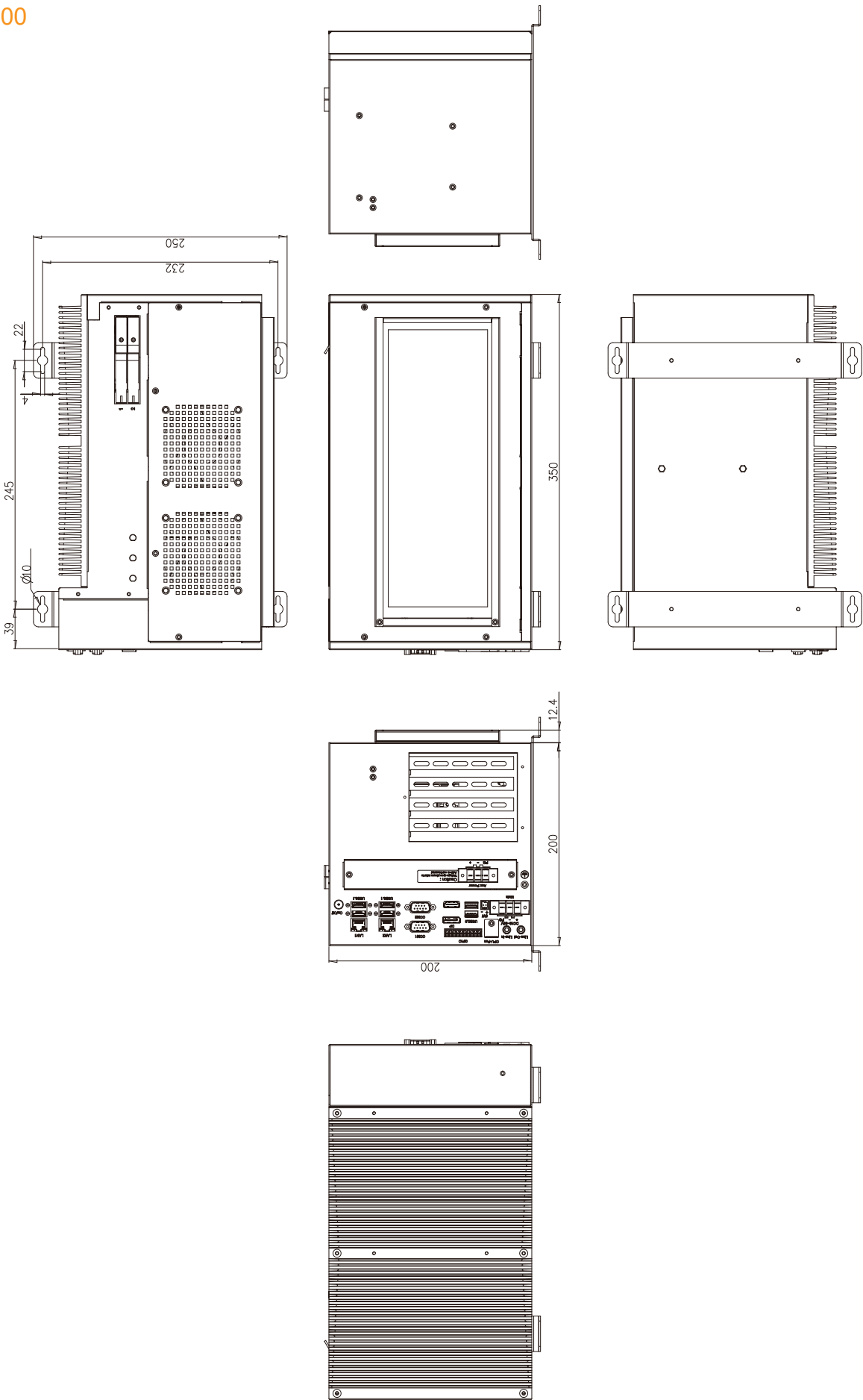
## Specifications

| Model Name                                                          | AVS-600                                                                                                                                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                                                       |                                                                                                                                                                                                      |
| Processor                                                           | 9th Gen. Intel Core i7/i5/i3 Processor, Xeon® E Processor                                                                                                                                            |
| System Chipset                                                      | C246                                                                                                                                                                                                 |
| System Memory                                                       | 2 x 260-pin DDR4 SO-DIMM memory, up to 64GB                                                                                                                                                          |
| <b>External I/O</b>                                                 |                                                                                                                                                                                                      |
| USB                                                                 | 4 x USB 3.0, type A<br>2 x USB 2.0, type A<br>1 x internal USB2.0 Type A for dongle                                                                                                                  |
| Serial/Parallel                                                     | 2 x RS-232/422/485, DB-9 (default RS-232)                                                                                                                                                            |
| LAN                                                                 | 2 x GbE LAN, RJ-45                                                                                                                                                                                   |
| Graph                                                               | 1 x DP<br>1 x HDMI                                                                                                                                                                                   |
| Audio                                                               | 1 x Line-out<br>1 x Mic-in                                                                                                                                                                           |
| Digital I/O                                                         | 1 x 8-bit GPIO, terminal block                                                                                                                                                                       |
| Power connector                                                     | 1 x 3-pin DC power input, terminal block<br>1 x 2-pin power switch<br>1 x power button with light                                                                                                    |
| <b>Storage Space</b>                                                |                                                                                                                                                                                                      |
| HDD                                                                 | 4 x 2.5" SATAIII HDD/SSD (support RAID 0/1/5/10)                                                                                                                                                     |
| <b>Expansion</b>                                                    |                                                                                                                                                                                                      |
| Onboard expansion bus                                               | 2 x full size Mini-PCIe slot with 1 x micro SIM socket<br>1 x M.2 M key 2280/2242 support NVMe                                                                                                       |
| Expansion slot                                                      | 1x PCIe-16, 2x PCIe-4 in x8 socket                                                                                                                                                                   |
| <b>Power</b>                                                        |                                                                                                                                                                                                      |
| Power input                                                         | DC 12~36V                                                                                                                                                                                            |
| Power Consumption                                                   | Max: 150W                                                                                                                                                                                            |
| Support Expansion                                                   | Max: 75W@12V                                                                                                                                                                                         |
| <b>Mechanical</b>                                                   |                                                                                                                                                                                                      |
| Construction                                                        | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                                                                                                      |
| Mounting                                                            | Mounting kit (Default)                                                                                                                                                                               |
| Thermal                                                             | 1 x 120x295mm Ventilation windows (Default)<br>2 x 80x80mm Smart Fans in the Top-side for Hot-air out.(Default)<br>1 x 120x120mm Smart Fan outside on top of Heat-sink for CPU Hot-air blow (Option) |
| Dimension(mm)                                                       | 200x 200x 350                                                                                                                                                                                        |
| Net weight(Kg)                                                      | 7.0                                                                                                                                                                                                  |
| <b>Environment</b>                                                  |                                                                                                                                                                                                      |
| Operating temperature(°C)                                           | 0~50(for i3/i5 model) / 0~40(for i7/Xeon model)                                                                                                                                                      |
| Storage temperature(°C)                                             | -40~85                                                                                                                                                                                               |
| Vibration                                                           | 1G / 5 ~ 500Hz (Random) / Operation                                                                                                                                                                  |
| Shock                                                               | Half-Sine 30G 2ms/operation                                                                                                                                                                          |
| Drop                                                                | 90cm(1 Corner, 3 Edge, 6 Surface)                                                                                                                                                                    |
| Humidity                                                            | 10 to 90% @ 40°C, non- condensing                                                                                                                                                                    |
| Certification                                                       | Meet CE/FCC Class A                                                                                                                                                                                  |
| <b>Operating System Support</b>                                     |                                                                                                                                                                                                      |
| Microsoft® Win10 IoT, Windows 7, Linux Kernel 4.15 (Ubuntu 16.04.4) |                                                                                                                                                                                                      |

# AVS-600 Series

Machine Vision Application System

## AVS-600



unit:mm



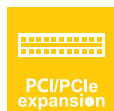
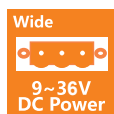


# AVS-52X Series

## Machine Vision Application System

### 9th Gen. Intel Core i3/i5/i7 Processor

- 9th Gen. Intel Core i7/i5/i3 Processor
- 2 x 260-pin DDR4 SO-DIMM memory, up to 64GB
- Support extensive GPU Card(75W) expansion
- Flexible expansion features through I/O module design
- Wide range DC 9~36V power input
- High Speed expansion I/O



9th Gen. Intel Core i7/i5/  
i3 Processor



Support extensive GPU  
Card(75W) expansion



Wide Range DC 9~36V  
Power Input



Support up to 4  
expansion slots



Support add-on GPU  
graphic cards and LAN/  
PoE/USB3.0 I/O cards



# AVS-52X Series

Machine Vision Application System



## Specifications

| Model Name                                                            | AVS-520                                                                                           |                                                                                                  | AVS-520QL      |          | AVS-522-EH1EQ1  |  |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------|----------|-----------------|--|
| System                                                                |                                                                                                   |                                                                                                  |                |          |                 |  |
| Processor                                                             | 9th Gen. Intel Core i7/i5/i3 Processor                                                            |                                                                                                  |                |          |                 |  |
| System Chipset                                                        | Q370                                                                                              |                                                                                                  |                |          |                 |  |
| System Memory                                                         | 2 x 260-pin DDR4 SO-DIMM memory, up to 64GB                                                       |                                                                                                  |                |          |                 |  |
| External I/O                                                          |                                                                                                   |                                                                                                  |                |          |                 |  |
| USB                                                                   | 4 x USB 3.0, type A<br>1 x internal USB2.0 Type A for dongle                                      |                                                                                                  |                |          |                 |  |
| Serial/Parallel                                                       | 1 x RS-232/422/485, DB-9 (default RS-232)<br>1 x RS-232, DB-9                                     |                                                                                                  |                |          |                 |  |
| LAN                                                                   | 2 x GbE LAN, RJ-45 by intel i210(i211)AT and i219LM controller                                    |                                                                                                  |                |          |                 |  |
| Graph                                                                 | 1 x VGA<br>1 x HDMI                                                                               |                                                                                                  |                |          |                 |  |
| Power connector                                                       | 1 x 3-pin DC power input, terminal block<br>1 x 2-pin power switch<br>1 x power button with light |                                                                                                  |                |          |                 |  |
| Storage Space                                                         |                                                                                                   |                                                                                                  |                |          |                 |  |
| HDD                                                                   | 2 x 2.5" SATAIII HDD/SSD , Easy-swappable HDD tray                                                |                                                                                                  |                |          |                 |  |
| Expansion                                                             |                                                                                                   |                                                                                                  |                |          |                 |  |
| Onboard expansion bus                                                 | 1 x full size Mini-PCIe slot<br>1 x M.2 M key 2280/2242 support NVMe                              |                                                                                                  |                |          |                 |  |
| High Speed expansion I/O                                              | None                                                                                              | 2 x GbE LAN, RJ-45 by intel i210(i211)AT<br>2 x USB 3.0, type A<br>1 x 8bit GPIO, terminal block |                | None     |                 |  |
| Riser                                                                 | 1 x PCIe-16, 1 x PCIe-4, default                                                                  |                                                                                                  |                |          |                 |  |
| Power                                                                 |                                                                                                   |                                                                                                  |                |          |                 |  |
| Power input                                                           | DC 9~36V                                                                                          |                                                                                                  |                |          |                 |  |
| Power Consumption                                                     | Max: 150W                                                                                         |                                                                                                  |                |          |                 |  |
| Support Graphic Card                                                  | TBD                                                                                               | TBD                                                                                              |                | Max: 75W |                 |  |
| Mechanical                                                            |                                                                                                   |                                                                                                  |                |          |                 |  |
| Construction                                                          | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                   |                                                                                                  |                |          |                 |  |
| Mounting                                                              | Wall Mount (default) & Din Rail (option)                                                          |                                                                                                  |                |          |                 |  |
| Dimension(mm)                                                         | 222 x 190 x 77                                                                                    |                                                                                                  | 222 x 190 x 77 |          | 222 x 190 x 127 |  |
| Net weight(Kg)                                                        | 3.4                                                                                               |                                                                                                  | 3.4            |          | 4.2             |  |
| Environment                                                           |                                                                                                   |                                                                                                  |                |          |                 |  |
| Operating temperature(°C)                                             | -20~60(for i3/i5 model)<br>-20~50(for i7 model)                                                   |                                                                                                  |                |          |                 |  |
| Storage temperature(°C)                                               | -40~85                                                                                            |                                                                                                  |                |          |                 |  |
| Vibration                                                             | 1G / 5 ~ 500Hz (Random) / Operation                                                               |                                                                                                  |                |          |                 |  |
| Shock                                                                 | 15G peak acceleration(11 msec. duration)/operation                                                |                                                                                                  |                |          |                 |  |
| Drop                                                                  | 92cm(1 Corner, 3 Edge, 6 Surface)                                                                 |                                                                                                  |                |          |                 |  |
| Humidity                                                              | 10 to 95% @ 40°C, non- condensing                                                                 |                                                                                                  |                |          |                 |  |
| Certification                                                         | Meet CE/FCC Class A                                                                               |                                                                                                  |                |          |                 |  |
| Operating System Support                                              |                                                                                                   |                                                                                                  |                |          |                 |  |
| Microsoft® Win10 IoT, Windows 7, Linux Kernel 4.15 ( Ubuntu 16.04.4 ) |                                                                                                   |                                                                                                  |                |          |                 |  |

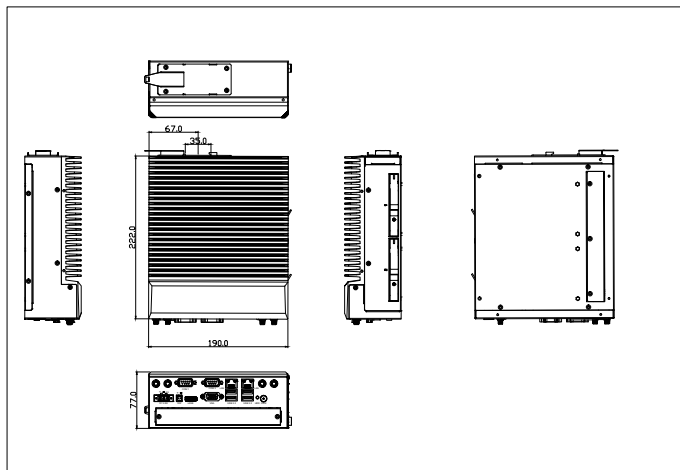


## Specifications

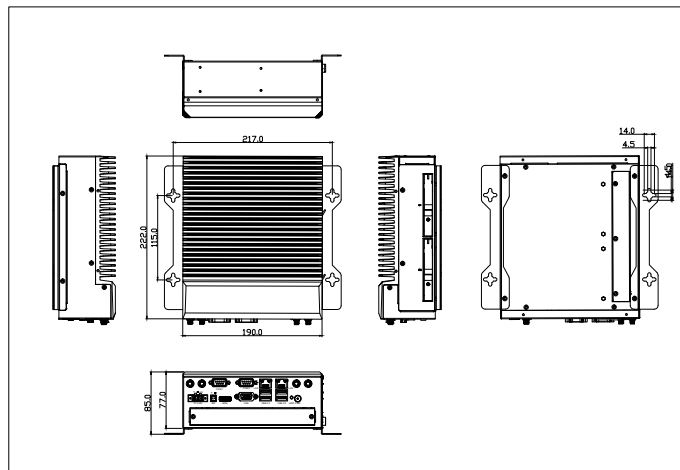
| Model Name                                                            | AVS-522QL-EH1EQ1                                                                                  | AVS-524-EH1EQ2                   | AVS-524QL-EH1EQ2                                                                                     |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------|
| System                                                                |                                                                                                   |                                  |                                                                                                      |
| Processor                                                             | 9th Gen. Intel Core i7/i5/i3 Processor                                                            |                                  |                                                                                                      |
| System Chipset                                                        | Q370                                                                                              |                                  |                                                                                                      |
| System Memory                                                         | 2 x 260-pin DDR4 SO-DIMM memory, up to 64GB                                                       |                                  |                                                                                                      |
| External I/O                                                          |                                                                                                   |                                  |                                                                                                      |
| USB                                                                   | 4 x USB 3.0, type A<br>1 x internal USB2.0 Type A for dongle                                      |                                  |                                                                                                      |
| Serial/Parallel                                                       | 1 x RS-232/422/485, DB-9 (default RS-232)<br>1 x RS-232, DB-9                                     |                                  |                                                                                                      |
| LAN                                                                   | 2 x GbE LAN, RJ-45 by intel i210(I211)AT and i219LM controller                                    |                                  |                                                                                                      |
| Graph                                                                 | 1 x VGA<br>1 x HDMI                                                                               |                                  |                                                                                                      |
| Power connector                                                       | 1 x 3-pin DC power input, terminal block<br>1 x 2-pin power switch<br>1 x power button with light |                                  |                                                                                                      |
| Storage Space                                                         |                                                                                                   |                                  |                                                                                                      |
| HDD                                                                   | 2 x 2.5" SATAIII HDD/SSD , Easy-swappable HDD tray                                                |                                  |                                                                                                      |
| Expansion                                                             |                                                                                                   |                                  |                                                                                                      |
| Onboard expansion bus                                                 | 1 x full size Mini-PCIe slot<br>1 x M.2 M key 2280/2242 support NVMe                              |                                  |                                                                                                      |
| High Speed expansion I/O                                              | 2 x GbE LAN, RJ-45 by intel I210(I211)AT<br>2 x USB 3.0, type A<br>1 x 8bit GPIO, terminal block  | None                             | 2 x GbE LAN, RJ-45 by intel I210(I211)AT<br>2 x USB 3.2 Gen1 type A<br>1 x 8bit GPIO, terminal block |
| Riser                                                                 | 1 x PCIe-16, 1 x PCIe-4, default                                                                  | 1 x PCIe-16, 2 x PCIe-4, default | 1 x PCIe-16, 2 x PCIe-4, default                                                                     |
| Power                                                                 |                                                                                                   |                                  |                                                                                                      |
| Power input                                                           | DC 9~36V                                                                                          |                                  |                                                                                                      |
| Power Consumption                                                     | Max: 150W                                                                                         |                                  |                                                                                                      |
| Support Graphic Card                                                  | Max: 75W                                                                                          |                                  |                                                                                                      |
| Mechanical                                                            |                                                                                                   |                                  |                                                                                                      |
| Construction                                                          | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                   |                                  |                                                                                                      |
| Mounting                                                              | Wall Mount (default) & Din Rail (option)                                                          |                                  |                                                                                                      |
| Dimension(mm)                                                         | 222 x 190 x 127                                                                                   | 222 x 190 x 176                  | 222 x 190 x 176                                                                                      |
| Net weight(Kg)                                                        | 4.2                                                                                               | 4.2                              | 4.5                                                                                                  |
| Environment                                                           |                                                                                                   |                                  |                                                                                                      |
| Operating temperature(°C)                                             | -20~60(for i3/i5 model)<br>-20~50(for i7 model)                                                   |                                  |                                                                                                      |
| Storage temperature(°C)                                               | -40~85                                                                                            |                                  |                                                                                                      |
| Vibration                                                             | 1G / 5 ~ 500Hz (Random) / Operation                                                               |                                  |                                                                                                      |
| Shock                                                                 | 15G peak acceleration(11 msec. duration)/operation                                                |                                  |                                                                                                      |
| Drop                                                                  | 92cm(1 Corner, 3 Edge, 6 Surface)                                                                 |                                  |                                                                                                      |
| Humidity                                                              | 10 to 95% @ 40°C, non- condensing                                                                 |                                  |                                                                                                      |
| Certification                                                         | Meet CE/FCC Class A                                                                               |                                  |                                                                                                      |
| Operating System Support                                              |                                                                                                   |                                  |                                                                                                      |
| Microsoft® Win10 IoT, Windows 7, Linux Kernel 4.15 ( Ubuntu 16.04.4 ) |                                                                                                   |                                  |                                                                                                      |

## AVS-520

AVS-520 DIN RAIL



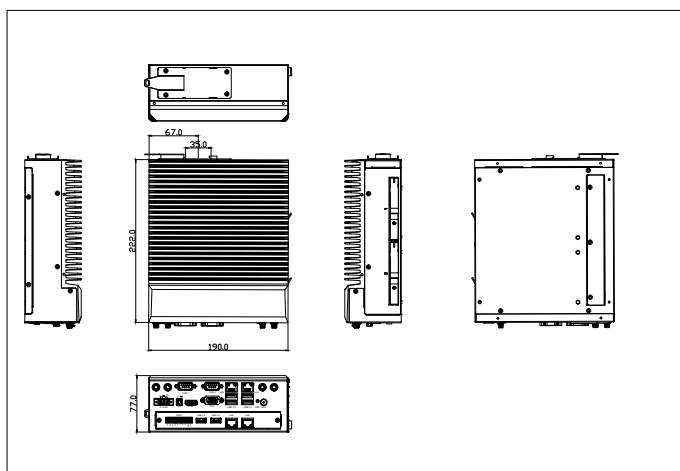
AVS-520 WALL MOUNT



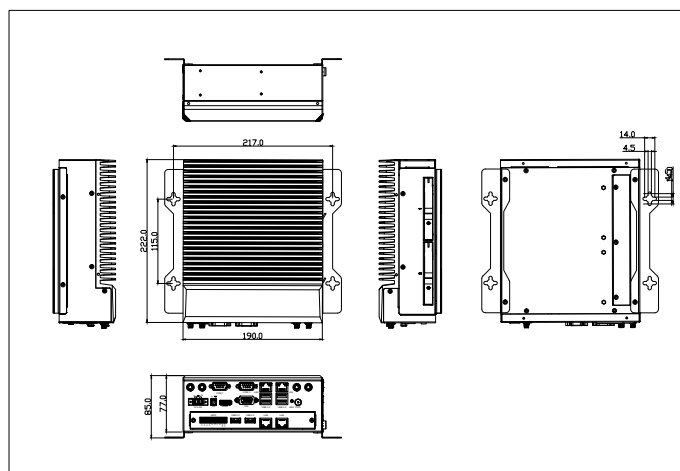
unit:mm

## AVS-520QL

AVS-520 DIN RAIL



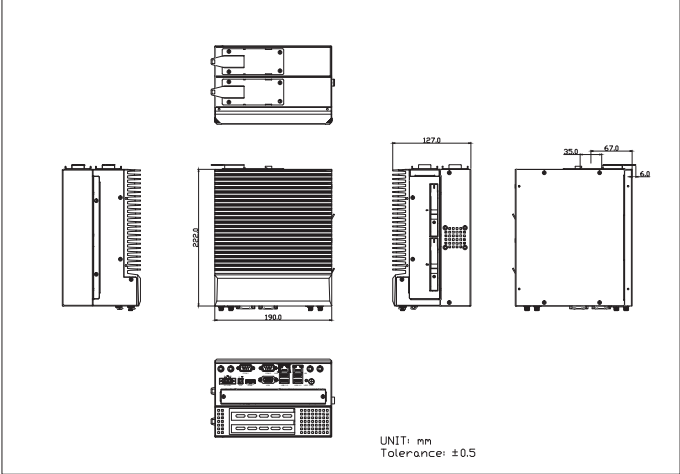
AVS-520 WALL MOUNT



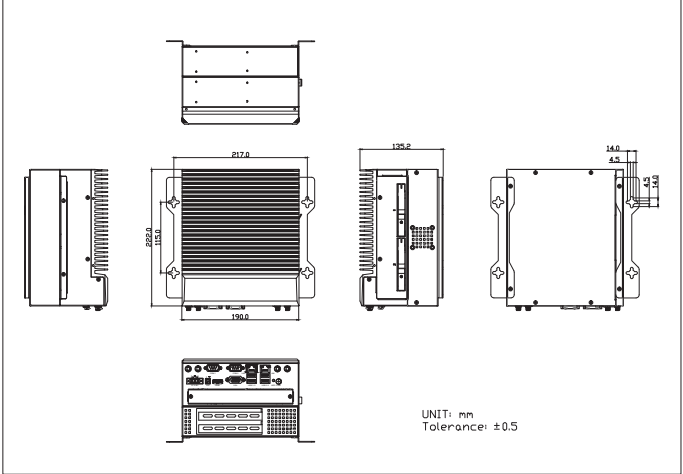
unit:mm

AVS-522-EH1EQ2

AVS-522 DIN RAIL



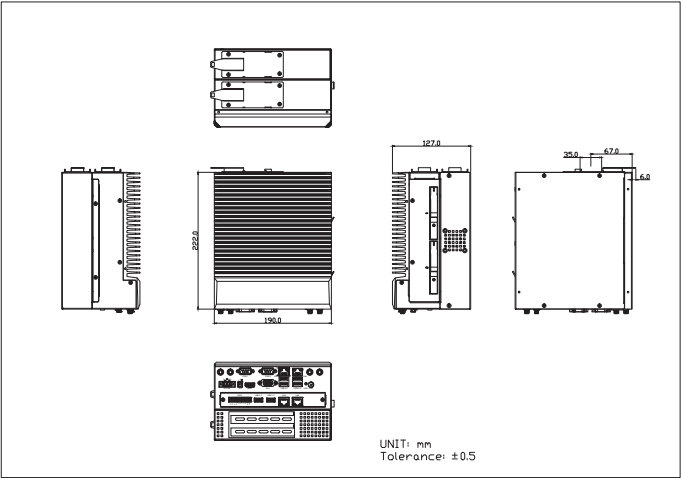
AVS-522 WALL MOUNT



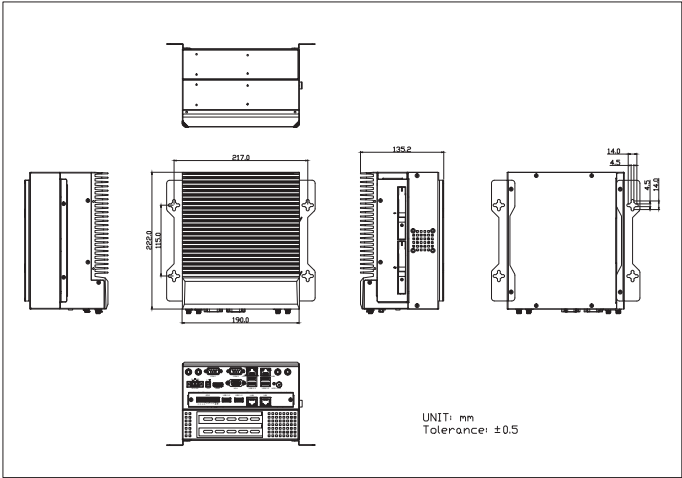
unit:mm

AVS-522QL-EH1EQ2

AVS-522 DIN RAIL



AVS-522 WALL MOUNT



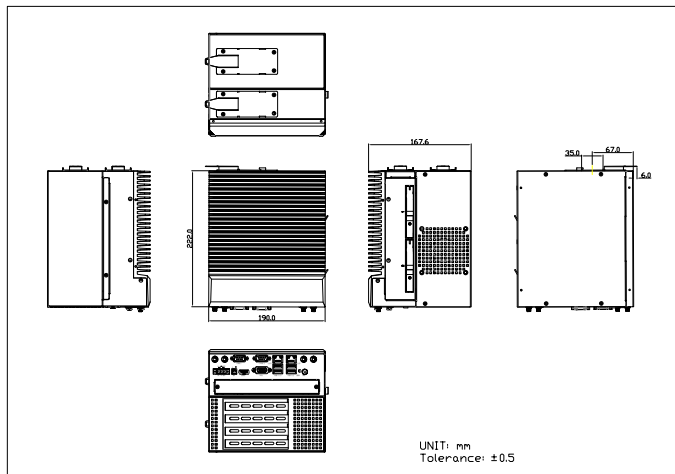
unit:mm

# AVS-52X Series

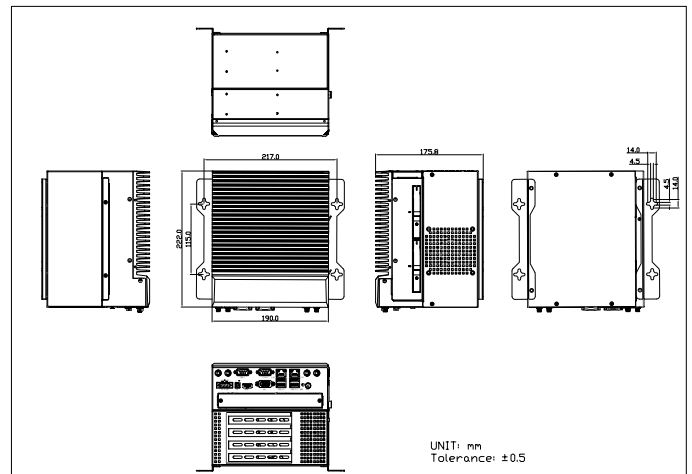
Machine Vision Application System

## AVS-524-EH1EQ1

AVS-524 DIN RAIL



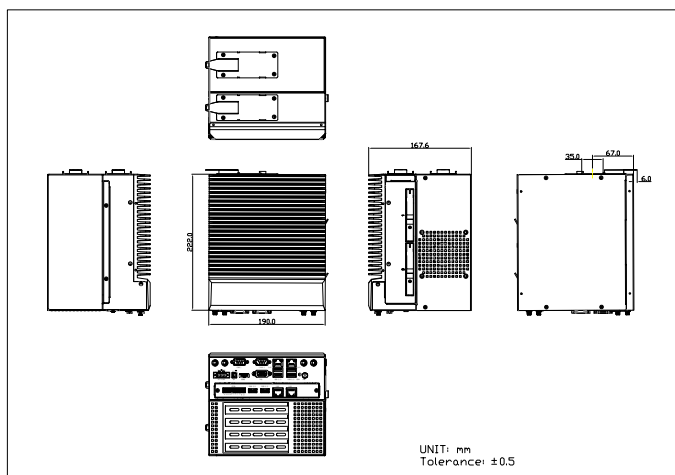
AVS-524 WALL MOUNT



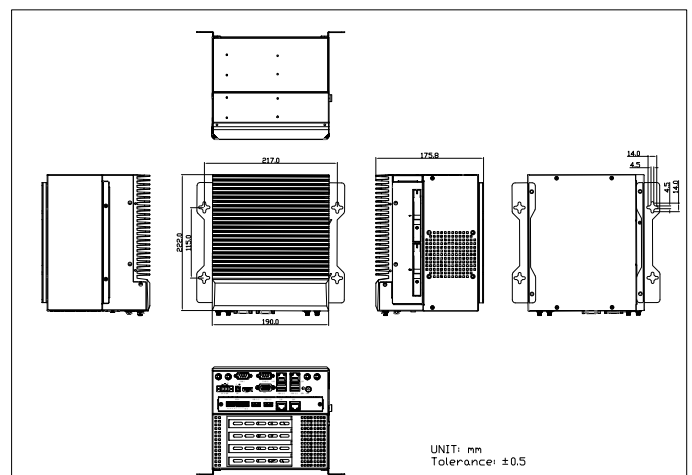
unit:mm

## AVS-524QL-EH1EQ1

AVS-524 DIN RAIL



AVS-524 WALL MOUNT



unit:mm





# AVS-50X Series

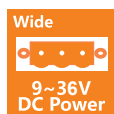
## Machine Vision Application System

### 7th Gen. Intel Core i3/i5/i7 Processor

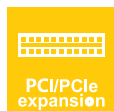
- Machine Vision Application System
- 7th Gen. Intel Core i7/i5/i3 Processor
- 2 x 260-pin DDR4 SO-DIMM memory
- Fanless Design
- Supports DIN rail and wall mount
- Wide range DC 9~36V power input



Fanless

Wide  
9~36V  
DC Power

0~50°C

Wide Temp  
OptionPCI/PCIe  
expansion

Din Rail

7th Gen. Intel Core  
i3/i5/i7 Processor



Fanless Design



Wide Range DC 9~36V  
Power Input



Support up to 4  
expansion slots



Support add-on GPU  
graphic cards and LAN/  
PoE/USB3.0 I/O cards



# AVS-50X Series

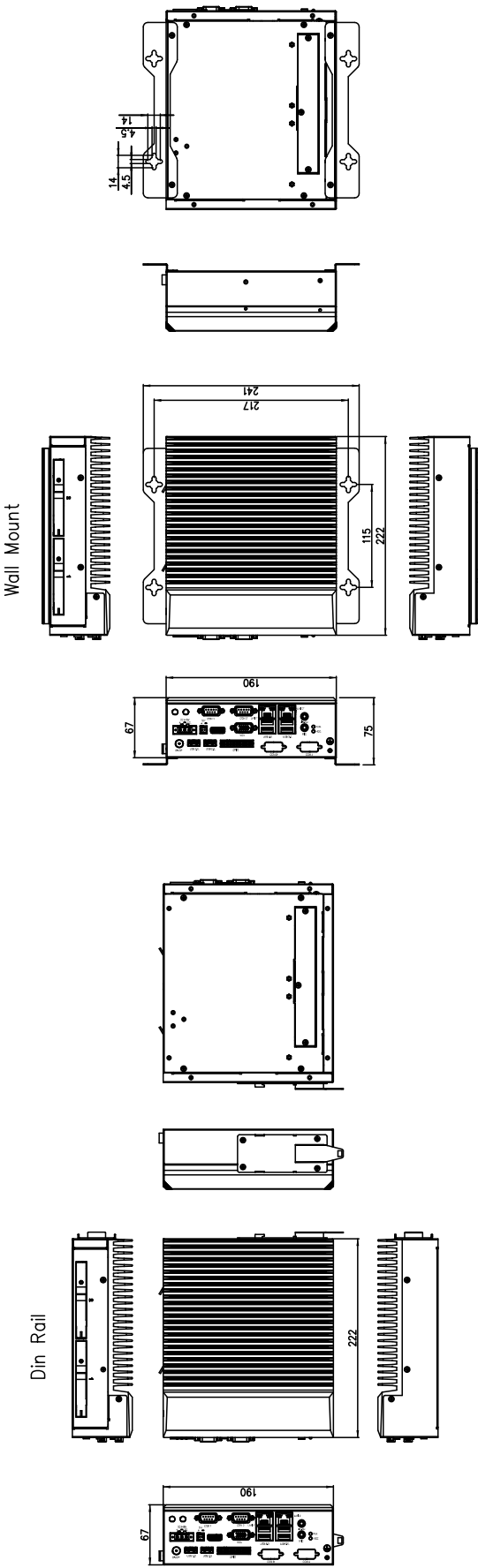
Machine Vision Application System



## Specifications

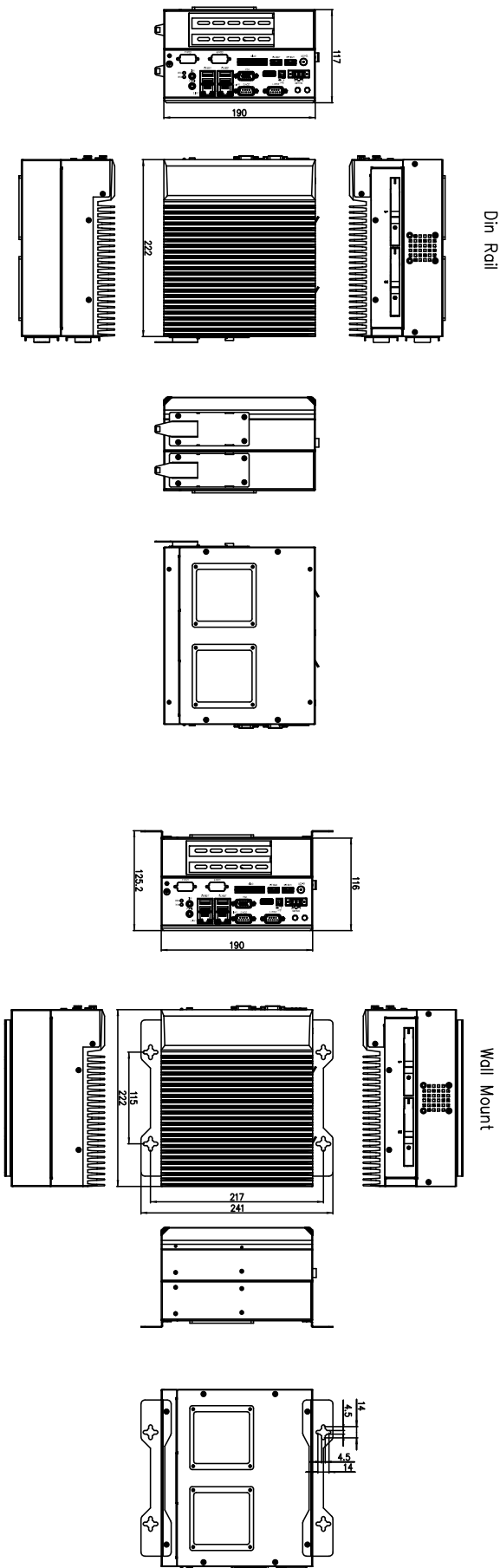
| Model Name                                                 | AVS-500                                                                                                                                    |                                                                                           | AVS-502 |                                                                                            | AVS-504 |  |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------|---------|--|
| System                                                     |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Processor                                                  | 7th Gen. Intel Core i3/i5/i7 Processor                                                                                                     |                                                                                           |         |                                                                                            |         |  |
| System Chipset                                             | Q170                                                                                                                                       |                                                                                           |         |                                                                                            |         |  |
| System Memory                                              | 2 x 260-pin DDR4 SO-DIMM memory, up to 32GB                                                                                                |                                                                                           |         |                                                                                            |         |  |
| External I/O                                               |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| USB                                                        | 4 x USB 3.0, type A<br>2 x USB 2.0, type A                                                                                                 |                                                                                           |         |                                                                                            |         |  |
| Serial/Parallel                                            | 1 x RS-232/422/485, DB9 (default RS-232)<br>1 x RS-232 DB9<br>1 x RS-422/485, DB9 ( default RS-485, optional)<br>1 x RS-232 DB9 (optional) |                                                                                           |         |                                                                                            |         |  |
| LAN                                                        | 2 x GbE LAN, RJ-45 by intel I210(I211)AT controller                                                                                        |                                                                                           |         |                                                                                            |         |  |
| Graph                                                      | 1 x VGA<br>1 x HDMI                                                                                                                        |                                                                                           |         |                                                                                            |         |  |
| Audio                                                      | 1 x Line-out<br>1 x Mic-in                                                                                                                 |                                                                                           |         |                                                                                            |         |  |
| Digital I/O                                                | 1 x 8-bit GPIO, terminal block                                                                                                             |                                                                                           |         |                                                                                            |         |  |
| Power connector                                            | 1 x 3-pin DC power input, terminal block<br>1 x 2-pin power switch<br>1 x power button                                                     |                                                                                           |         |                                                                                            |         |  |
| Storage Space                                              |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| HDD                                                        | 2 x 2.5" SATAIII HDD/SSD , Easy-swappable HDD tray                                                                                         |                                                                                           |         |                                                                                            |         |  |
| Expansion                                                  |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Onboard expansion bus                                      | 2 x full size mini-PCIe slot                                                                                                               |                                                                                           |         |                                                                                            |         |  |
| Expansion slot                                             | None                                                                                                                                       | 1x PCIe-16, 1x PCIe-4, default<br>1x PCIe-16,1x PCI, optional                             |         | 1x PCIe-16, 1x PCIe-4,1xPCIe-1, default<br>4x PCI, optional                                |         |  |
| Power                                                      |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Power input                                                | DC 9~36V                                                                                                                                   |                                                                                           |         |                                                                                            |         |  |
| Power Consumption                                          | Max: 150W                                                                                                                                  |                                                                                           |         |                                                                                            |         |  |
| Support Expansion                                          | Max: 75W@12V                                                                                                                               |                                                                                           |         |                                                                                            |         |  |
| Mechanical                                                 |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Construction                                               | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                                            |                                                                                           |         |                                                                                            |         |  |
| Mounting                                                   | Din Rail back side (default) & Wall Mount (option)                                                                                         |                                                                                           |         |                                                                                            |         |  |
| Thermal                                                    | None                                                                                                                                       | Support 1 x 4cm 4pin PWM Fan (optional)<br>Support 2pcs Fan Filter ( 8cm x 8cm, optional) |         | Support 1 x 8cm 4pin PWM Fan ( optional)<br>Support 2pcs Fan Filter ( 8cm x 8cm, optional) |         |  |
| Dimension(mm)                                              | 222 x 190 x 67                                                                                                                             | 222 x 190 x 117                                                                           |         | 222 x 190 x 157                                                                            |         |  |
| Net weight(Kg)                                             | 3.3                                                                                                                                        | 4.1                                                                                       |         | 4.4                                                                                        |         |  |
| Environment                                                |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Operating temperature(°C)                                  | -20~60(for i3/i5 model)<br>-20~50(for i7 model)                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Storage temperature(°C)                                    | -40~85                                                                                                                                     |                                                                                           |         |                                                                                            |         |  |
| Vibration                                                  | 1G / 5 ~ 500Hz (Random) / Operation                                                                                                        |                                                                                           |         |                                                                                            |         |  |
| Shock                                                      | 15G peak acceleration(11 msec. duration)/operation                                                                                         |                                                                                           |         |                                                                                            |         |  |
| Drop                                                       | 92cm(1 Corner, 3 Edge, 6 Surface)                                                                                                          |                                                                                           |         |                                                                                            |         |  |
| Humidity                                                   | 10 to 90% @ 40°C, non- condensing                                                                                                          |                                                                                           |         |                                                                                            |         |  |
| Certification                                              | Meet CE/FCC Class A                                                                                                                        |                                                                                           |         |                                                                                            |         |  |
| Operating System Support                                   |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |
| Microsoft® Win10 IoT, Linux Kernel 4.15 ( Ubuntu 16.04.4 ) |                                                                                                                                            |                                                                                           |         |                                                                                            |         |  |

AVS-500



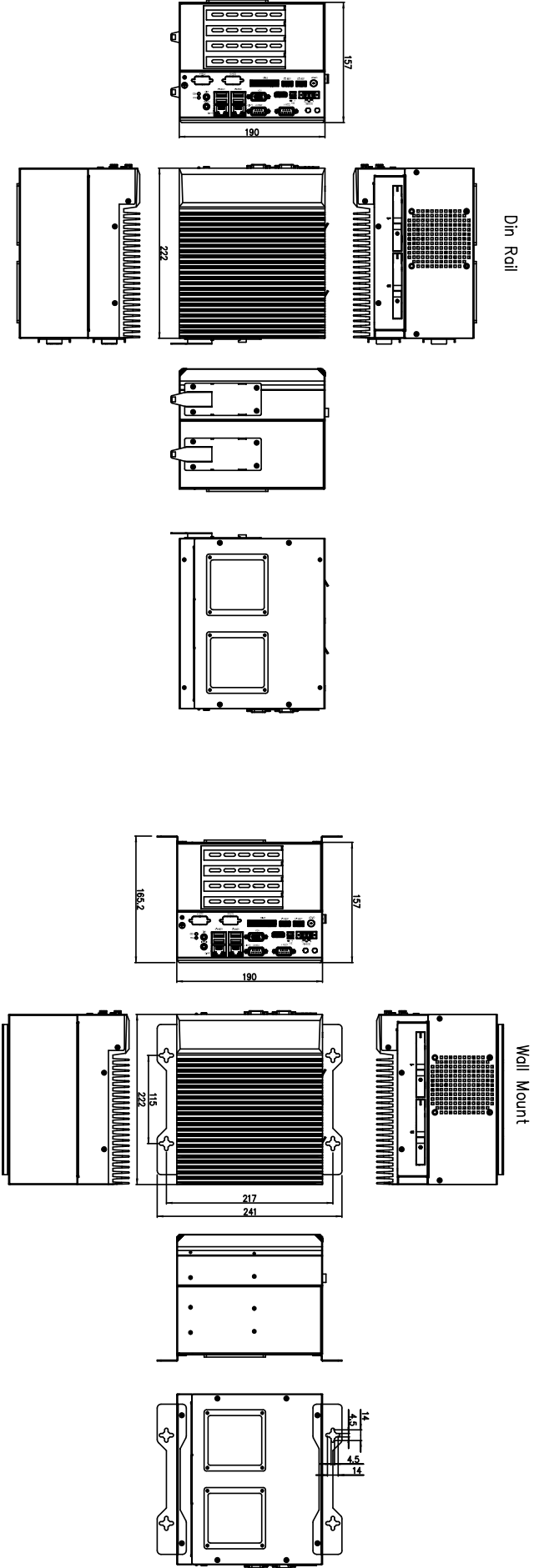
unit:mm

AVS-502



unit:mm

AVS-504



unit:mm



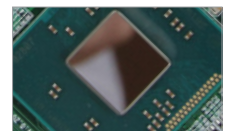
# AVS-300

## Machine Vision Controller

### Intel Core J1900 Processor

- Machine Vision Application System
- Intel Celeron J1900 Processor
- 1 x DDR3L SO-DIMM 1333MHz
- 1 x 2.5" SATA2 HDD Space
- Fanless Design
- Wide Range DC 9~36V Power Input

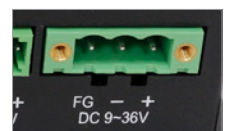
Intel Celeron J1900 Processor



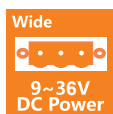
Fanless Design



Wide Range DC 9~36V Power Input



Ultra Slim Size



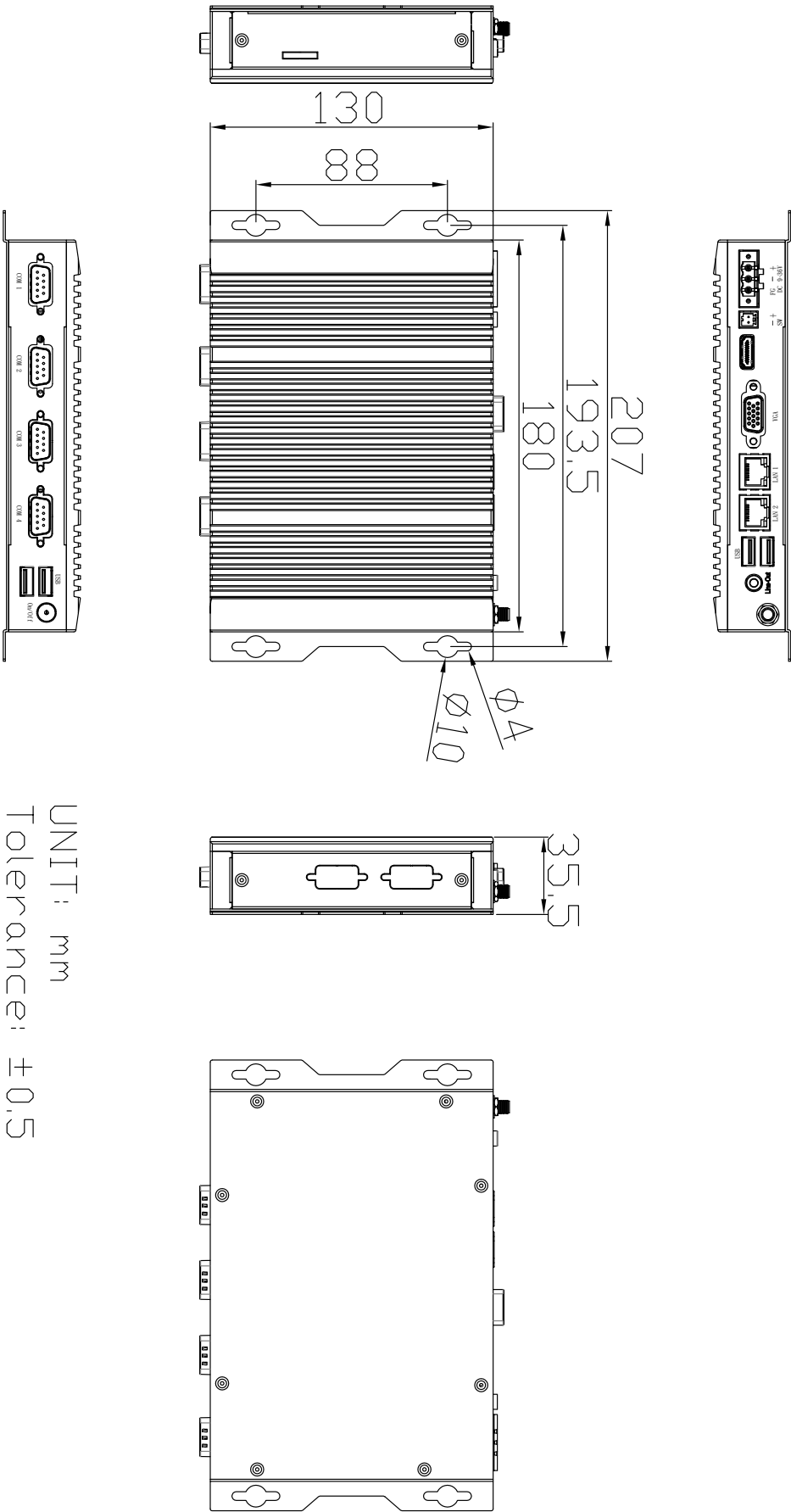




## Specifications

| Model Name                             | AVS-300                                                         |
|----------------------------------------|-----------------------------------------------------------------|
| <b>System</b>                          |                                                                 |
| Processor                              | Onboard Intel Celeron J1900 Processor                           |
| System Chipset                         | SoC                                                             |
| System Memory                          | 1 x 204-pin SO-DIMM DDR3L 1333MHz, up to 8GB                    |
| <b>External I/O</b>                    |                                                                 |
| Super I/O                              | Nuvoton NCT6106D                                                |
| USB                                    | 2 x USB 3.0, type A<br>2 x USB 2.0, type A                      |
| Serial/Parallel                        | 1 x RS232/422/485, DB9<br>1 x RS232, DB9<br>2 x RS485, DB9      |
| LAN                                    | 2 x GbE, RJ-45 by intel I210(I211)AT controller                 |
| Graph                                  | 1 x VGA up to 1920 x 1200<br>1 x HDMI up to 1920 x 1200         |
| Audio                                  | 1 x Line out                                                    |
| Digital I/O                            | None                                                            |
| Power connector                        | 1 x 3-pin terminal block connector                              |
| <b>Storage Space</b>                   |                                                                 |
| HDD                                    | 1x SATAII connector (7Pin) for 2.5" HDD<br>1 x mSATA            |
| <b>Expansion</b>                       |                                                                 |
| Expansion slot                         | 1 x full size mini PCIe                                         |
| <b>Power</b>                           |                                                                 |
| Power input                            | DC 9~36V                                                        |
| Power Consumption                      | TBD                                                             |
| <b>Mechanical</b>                      |                                                                 |
| Construction                           | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis |
| Mounting                               | Wall mount                                                      |
| Dimension(mm)                          | 207 x 130 x 35.5                                                |
| Net weight(Kg)                         | 1.05                                                            |
| <b>Environment</b>                     |                                                                 |
| Operating temperature(°C)              | -20~70                                                          |
| Storage temperature(°C)                | -40~85                                                          |
| Humidity                               | 10 to 90% @ 40°C, non- condensing                               |
| Certification                          | Meet CE/FCC Class A                                             |
| <b>Operating System Support</b>        |                                                                 |
| Microsoft® Win10 IoT, Linux Kernel 3.0 |                                                                 |

AVS-300



unit:mm

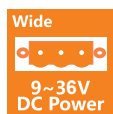


# AVS-301

## Machine Vision Controller

### Intel J1900 Processor

- Intel Celeron J1900 Processor
- 1 x DDR3L SO-DIMM 1333MHz
- 1 x mSATA for SSD storage, 1 x SATAII for HDD
- Fanless Design
- DC 9-36V Wide Voltage Input



Intel Celeron J1900 Processor



Fanless Design



8-bit GPIO



All solid capacitors motherboard



Support Wide Temperature-20~70°C



# AVS-301

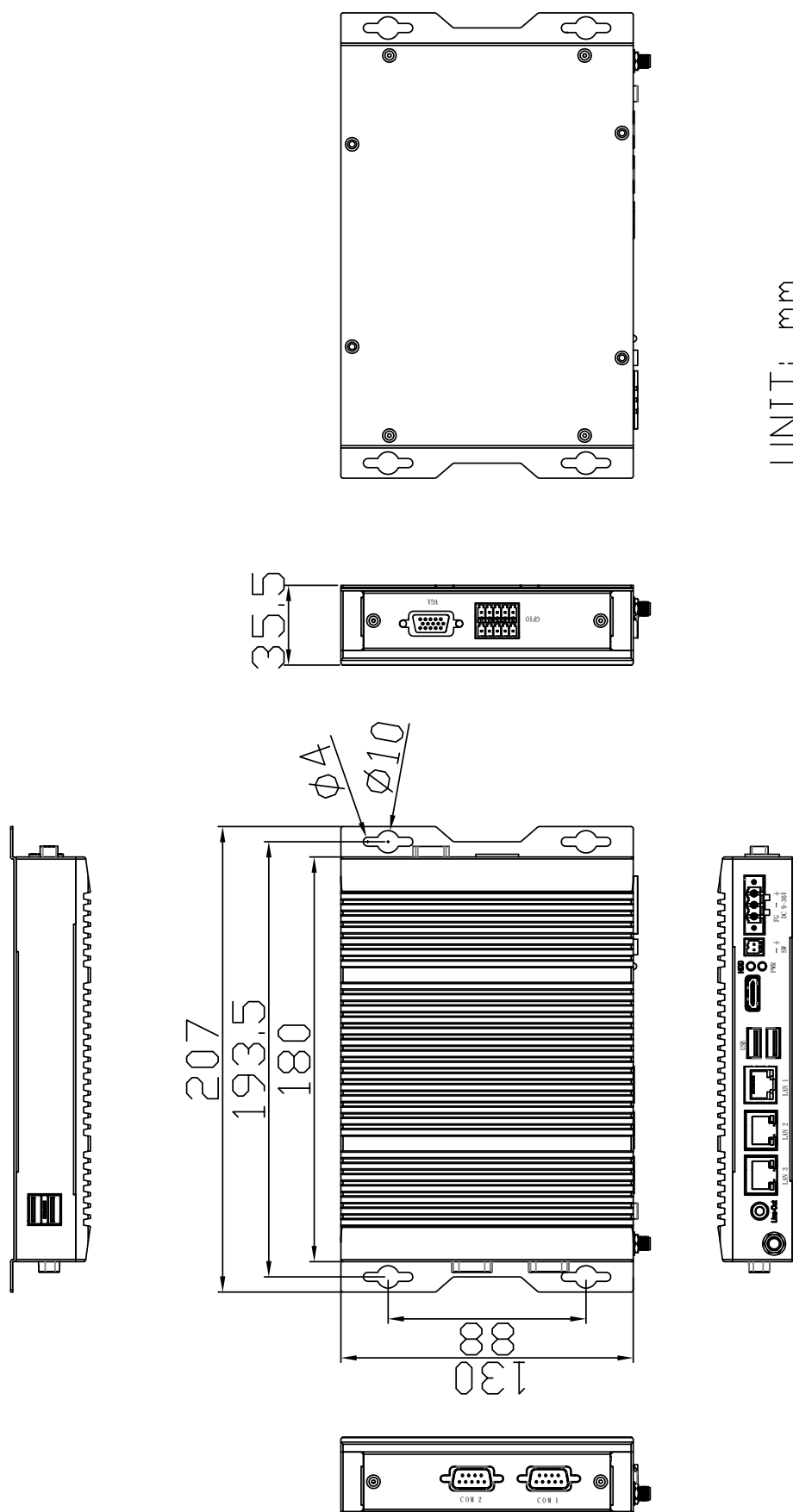
Machine Vision Controller



## Specifications

| Model Name                             | AVS-301                                                                  |
|----------------------------------------|--------------------------------------------------------------------------|
| <b>System</b>                          |                                                                          |
| Processor                              | Onboard Intel Celeron J1900 Pcessor                                      |
| System Chipset                         | SOC                                                                      |
| System Memory                          | 1 x 204-pin SO-DIMM DDR3L 1333MHz, up to 8GB                             |
| <b>External I/O</b>                    |                                                                          |
| Super I/O                              | Nuvoton NCT6106D                                                         |
| USB                                    | 1x USB 3.0, type A<br>3x USB 2.0, type A<br>1x USB 2.0, type A ,Internal |
| Serial/Parallel                        | 1x RS232/422/485, DB9<br>1x RS232, DB9                                   |
| LAN                                    | 3 x GbE, RJ-45 by intel I210(I211)AT controller                          |
| Graph                                  | 1 x VGA up to 1920 x 1200<br>1 x HDMI up to 1920 x 1200                  |
| Audio                                  | 1 x Line out                                                             |
| Digital I/O                            | 1 x 8-bit GPIO                                                           |
| Power connector                        | 1 x 3-pin terminal block connector                                       |
| <b>Storage Space</b>                   |                                                                          |
| HDD                                    | 1x SATAII connector (7Pin) for 2.5" HDD<br>1x mSATA                      |
| <b>Expansion</b>                       |                                                                          |
| Expansion slot                         | 1 x full size mini PCIe                                                  |
| <b>Power</b>                           |                                                                          |
| Power input                            | DC 9~36V                                                                 |
| Power Consumption                      | TBD                                                                      |
| <b>Mechanical</b>                      |                                                                          |
| Construction                           | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis          |
| Mounting                               | Wall mount                                                               |
| Dimension(mm)                          | 207 x 130 x 35.5                                                         |
| Net weight(Kg)                         | 1.05Kg                                                                   |
| <b>Environment</b>                     |                                                                          |
| Operating temperature(°C)              | -20~70                                                                   |
| Storage temperature(°C)                | -40~85                                                                   |
| Humidity                               | 10 to 90% @ 40°C, non- condensing                                        |
| Certification                          | Meet CE/FCC Class A                                                      |
| <b>Operating System Support</b>        |                                                                          |
| Microsoft® Win10 IoT, Linux Kernel 3.0 |                                                                          |

UNIT: mm  
Tolerance:  $\pm 0.5$



unit:mm

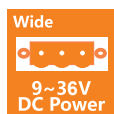


# AVS-302

## Machine Vision Controller

### Intel Celeron J1900 Processor

- Machine Vision Application System
- Intel Celeron J1900 Processor
- 1 x DDR3L SO-DIMM 1333MHz
- 1 x mSATA for SSD storage, 1 x SATAII for HDD
- Fanless Design
- Wide Range DC 9~36V Power Input



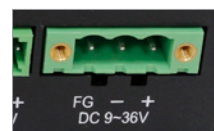
Intel Celeron J1900 Processor



Fanless Design



Wide Range DC 9~36V Power Input



Ultra Slim Size



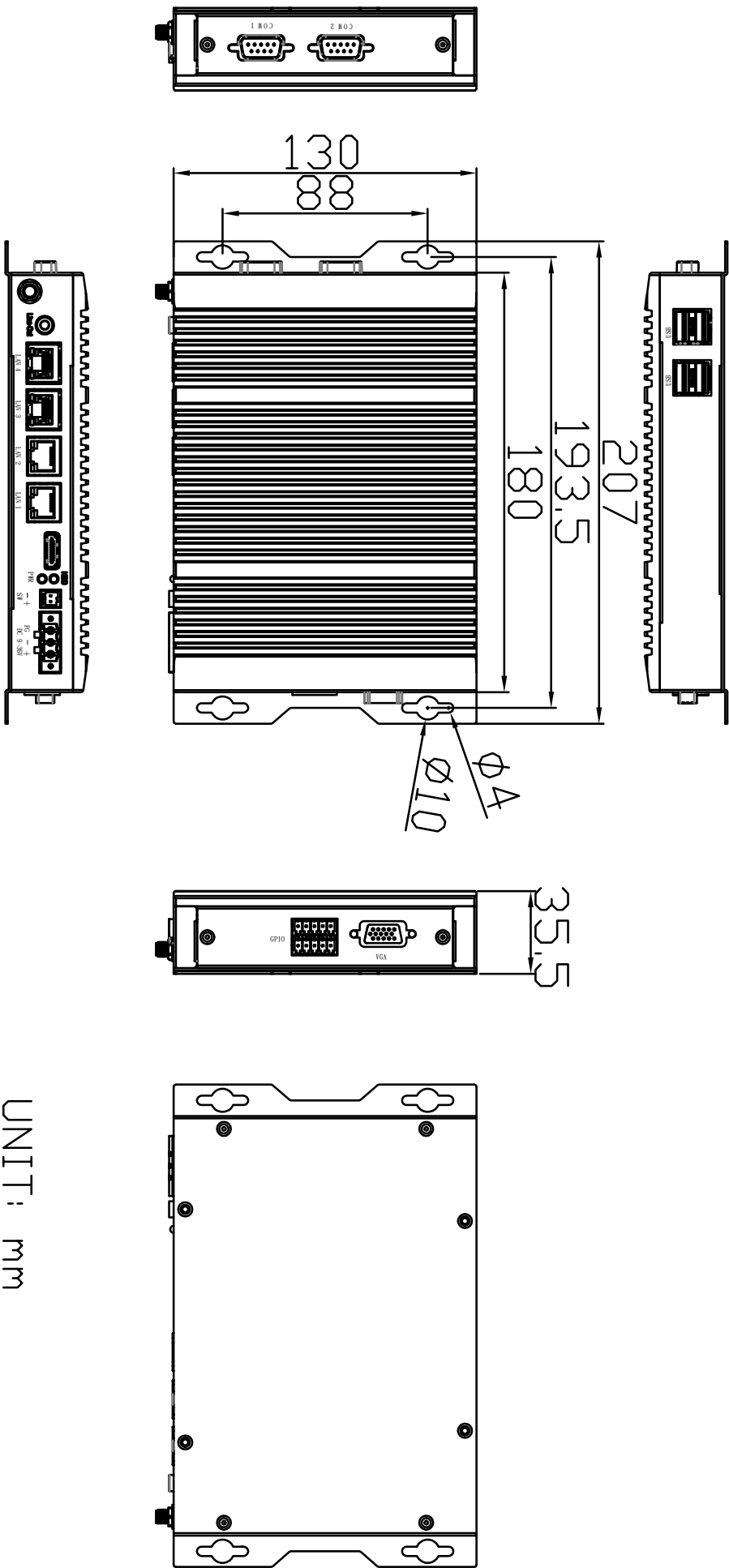




## Specifications

| Model Name                             | AVS-302                                                                  |
|----------------------------------------|--------------------------------------------------------------------------|
| <b>System</b>                          |                                                                          |
| Processor                              | Onboard Intel Celeron J1900 Processor                                    |
| System Chipset                         | SoC                                                                      |
| System Memory                          | 1 x 204-pin SO-DIMM DDR3L 1333MHz, up to 8GB                             |
| <b>External I/O</b>                    |                                                                          |
| Super I/O                              | Nuvoton NCT6106D                                                         |
| USB                                    | 1x USB 3.0, type A<br>3x USB 2.0, type A<br>1x USB 2.0, type A, Internal |
| Serial/Parallel                        | 1x RS232/422/485, DB9<br>1x RS232, DB9                                   |
| LAN                                    | 4 x GbE, RJ-45 by intel I210(I211)AT controller                          |
| Graph                                  | 1 x VGA up to 1920 x 1200<br>1 x HDMI up to 1920 x 1200                  |
| Audio                                  | 1 x Line out                                                             |
| Digital I/O                            | 1 x 8-bit GPIO                                                           |
| Power connector                        | 1 x 3-pin terminal block connector                                       |
| <b>Storage Space</b>                   |                                                                          |
| HDD                                    | 1x SATAII connector (7Pin) for 2.5" HDD<br>1x mSATA                      |
| <b>Expansion</b>                       |                                                                          |
| Expansion slot                         | 1 x full size mini PCIe (without USB singal)                             |
| <b>Power</b>                           |                                                                          |
| Power input                            | DC 9~36V                                                                 |
| Power Consumption                      | TBD                                                                      |
| <b>Mechanical</b>                      |                                                                          |
| Construction                           | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis          |
| Mounting                               | Wall mount                                                               |
| Dimension(mm)                          | 207 x 130 x 35.5                                                         |
| Net weight(Kg)                         | 1.2                                                                      |
| <b>Environment</b>                     |                                                                          |
| Operating temperature(°C)              | -20~70                                                                   |
| Storage temperature(°C)                | -40~85                                                                   |
| Humidity                               | 10 to 90% @ 40°C, non- condensing                                        |
| Certification                          | Meet CE/FCC Class A                                                      |
| <b>Operating System Support</b>        |                                                                          |
| Microsoft® Win10 IoT, Linux Kernel 3.0 |                                                                          |

AVS-302



UNIT: mm  
Tolerance:  $\pm 0.5$

unit:mm



# AVS-310

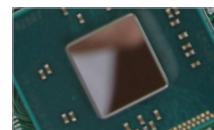
## Machine Vision Controller

### Intel J1900 Processor

- Intel Celeron J1900 Processor
- 1 x DDR3L SO-DIMM 1333MHz
- 1 x 2.5" SATA2 HDD space
- 2 x PoE ports with Intel GT210AT Controller
- Fanless Design



Intel Celeron J1900 Processor



Fanless Design



2 x PoE ports with Intel GT210AT Controller



All solid capacitors motherboard



Support Wide Temperature-20~70°C



# AVS-310

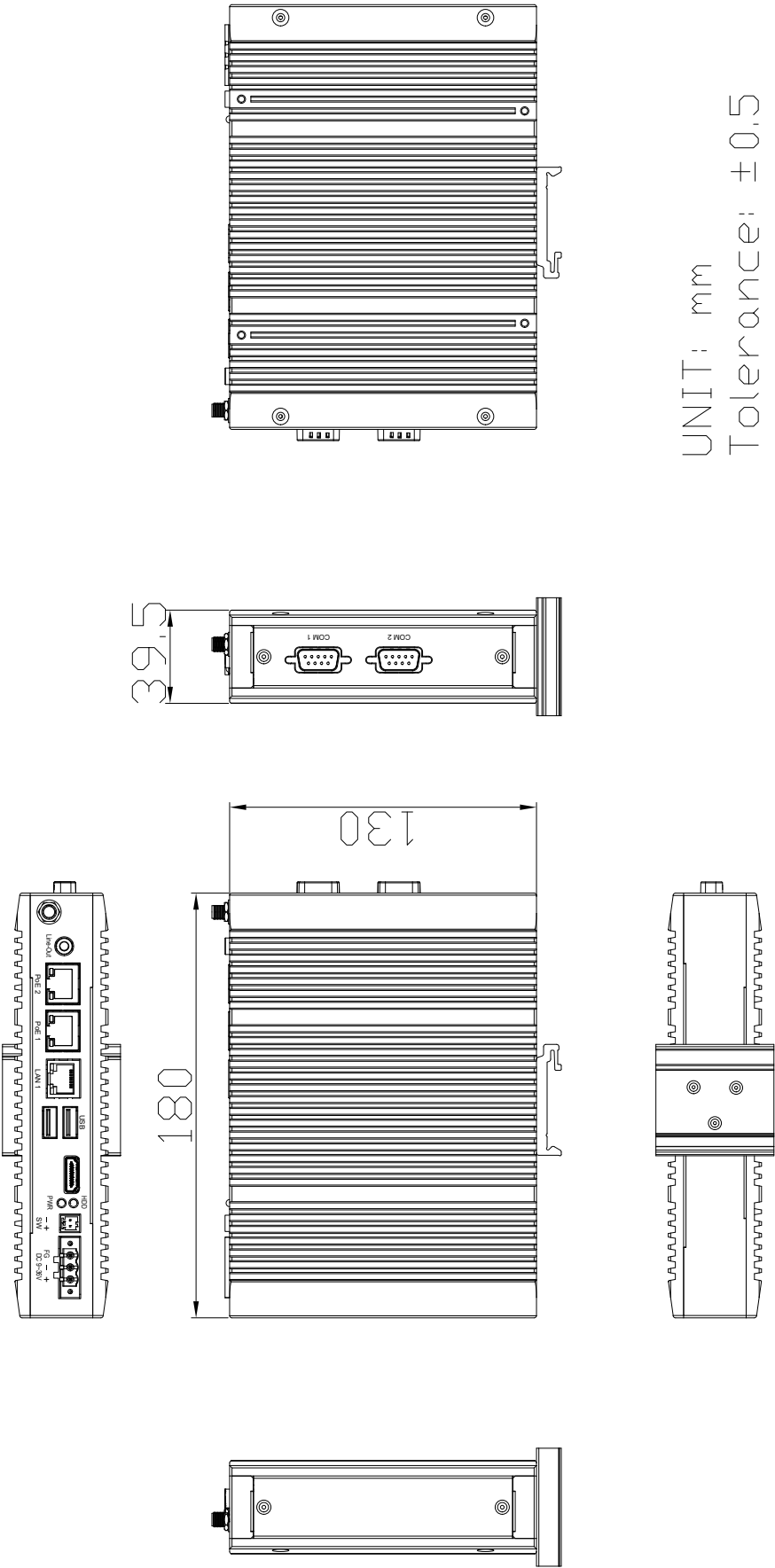
Machine Vision Controller



## Specifications

| Model Name                             | AVS-310                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                          |                                                                                                                                          |
| Processor                              | Onboard Intel Celeron J1900 Processor                                                                                                    |
| System Chipset                         | SOC                                                                                                                                      |
| System Memory                          | 1 x 204-pin SO-DIMM DDR3L 1333MHz, up to 8GB                                                                                             |
| <b>External I/O</b>                    |                                                                                                                                          |
| Super I/O                              | Nuvoton NCT6106D                                                                                                                         |
| USB                                    | 1 x USB 3.0, type A<br>1 x USB 2.0, type A                                                                                               |
| Serial/Parallel                        | 1 x RS232/422/485, DB9<br>1 x RS232, DB9                                                                                                 |
| LAN                                    | 1 x GbE, RJ-45 by intel I210(I211)AT controller<br>2 x Gigabit IEEE 802.3af/at (15.4W/25W)PoE port by RJ-45 with intel I210AT controller |
| Graph                                  | 1 x VGA up to 1920 x 1200<br>1 x HDMI up to 1920 x 1200                                                                                  |
| Audio                                  | 1 x Line out                                                                                                                             |
| Digital I/O                            | 1 x 8-bit GPIO                                                                                                                           |
| Power connector                        | 1 x 3-pin terminal block connector                                                                                                       |
| <b>Storage Space</b>                   |                                                                                                                                          |
| HDD                                    | 1x SATAII connector (7Pin) for 2.5" HDD<br>1 x mSATA                                                                                     |
| <b>Expansion</b>                       |                                                                                                                                          |
| Expansion slot                         | 1 x full size mini PCIe                                                                                                                  |
| <b>Power</b>                           |                                                                                                                                          |
| Power input                            | DC 9~36V (DC24V input only for PoE, Default)                                                                                             |
| Power Consumption                      | TBD                                                                                                                                      |
| <b>Mechanical</b>                      |                                                                                                                                          |
| Construction                           | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                                          |
| Mounting                               | Din rail mount                                                                                                                           |
| Dimension(mm)                          | 180 x 130 x 39.5                                                                                                                         |
| Net weight(Kg)                         | 1.85Kg                                                                                                                                   |
| <b>Environment</b>                     |                                                                                                                                          |
| Operating temperature(°C)              | -20~70                                                                                                                                   |
| Storage temperature(°C)                | -40~85                                                                                                                                   |
| Humidity                               | 10 to 90% @ 40°C, non- condensing                                                                                                        |
| Certification                          | Meet CE/FCC Class A                                                                                                                      |
| <b>Operating System Support</b>        |                                                                                                                                          |
| Microsoft® Win10 IoT, Linux Kernel 3.0 |                                                                                                                                          |

AVS-310



Stainless Steel Panel PC

Industrial Panel PC

HMI

Embedded Box PC

Display

unit:mm

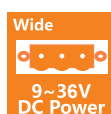


# AVS-313

## Machine Vision Controller with Lighting Control (MCU)

### Intel J1900 Processor

- Machine Vision Application System
- Intel Celeron J1900 Processor
- 1 x DDR3L SO-DIMM 1333MHz
- 1 x 2.5" SATA2 HDD Space
- 2 x PoE ports with inte GT210AT controller
- Fanless Design



Intel Celeron J1900 Processor



Fanless Design



2 x PoE ports with inte GT210AT controller



Support Wide Temperature-20~70°C



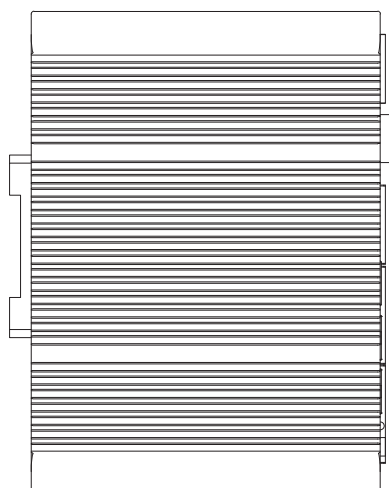
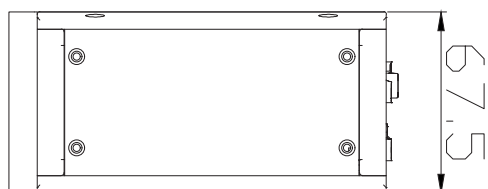
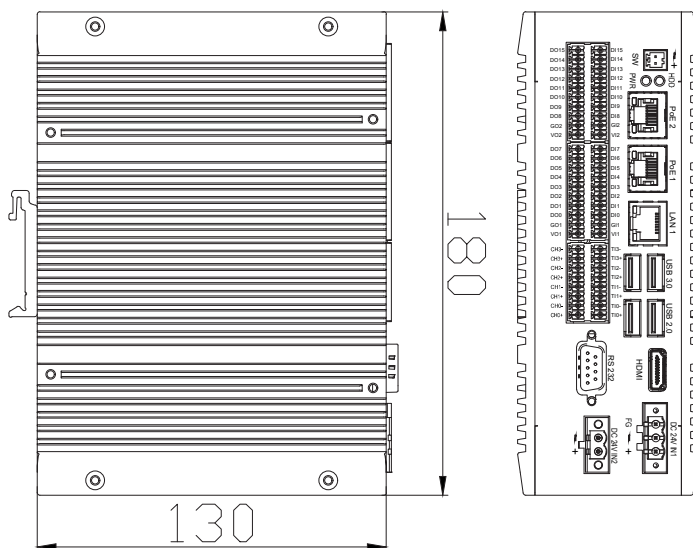
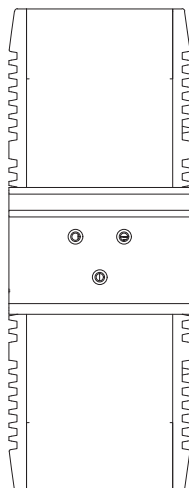




## Specifications

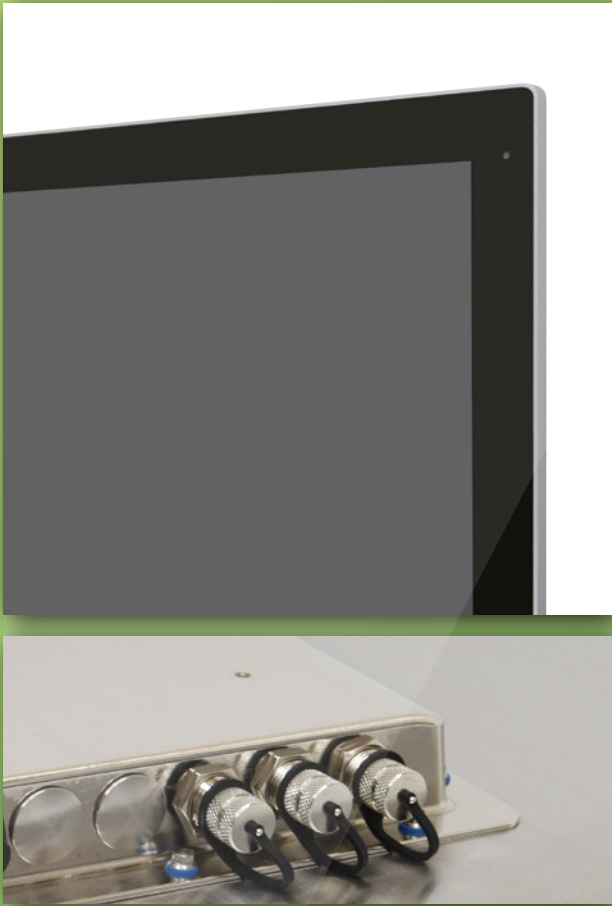
| Model Name                             | AVS-313                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>System</b>                          |                                                                                                                                          |
| Processor                              | Onboard Intel Celeron J1900 Processor                                                                                                    |
| System Chipset                         | SoC                                                                                                                                      |
| System Memory                          | 1 x 204-pin SO-DIMM DDR3L 1333MHz, up to 8GB                                                                                             |
| <b>External I/O</b>                    |                                                                                                                                          |
| Super I/O                              | Nuvoton NCT6106D                                                                                                                         |
| USB                                    | 1 x USB 3.0, type A<br>3 x USB 2.0, type A<br>2 x USB 2.0, type A, Internal                                                              |
| Serial/Parallel                        | 1 x RS232, DB9                                                                                                                           |
| LAN                                    | 1 x GbE, RJ-45 by intel I210(I211)AT controller<br>2 x Gigabit IEEE 802.3af/at (15.4W/25W)PoE port by RJ-45 with intel I210AT controller |
| Graph                                  | 1 x VGA up to 1920 x 1200<br>1 x HDMI up to 1920 x 1200                                                                                  |
| Audio                                  | None                                                                                                                                     |
| Digital I/O                            | 2 x 16-bit GPIO                                                                                                                          |
| Lighting control                       | 4 x Lighting control                                                                                                                     |
| Trigger                                | 4 x Trigger input                                                                                                                        |
| Power connector                        | 1 x 3-pin terminal block connector                                                                                                       |
| <b>Storage Space</b>                   |                                                                                                                                          |
| HDD                                    | 1x SATAII connector (7Pin) for 2.5" HDD<br>1 x mSATA                                                                                     |
| <b>Expansion</b>                       |                                                                                                                                          |
| Expansion slot                         | 1 x full size mini PCIe                                                                                                                  |
| <b>Power</b>                           |                                                                                                                                          |
| Power input                            | DC 9~36V (DC24V input only for PoE, Default)                                                                                             |
| Power Consumption                      | TBD                                                                                                                                      |
| <b>Mechanical</b>                      |                                                                                                                                          |
| Construction                           | Plating Titanium Gray Aluminum Heatsink and Black Steel Chassis                                                                          |
| Mounting                               | Din rail mount                                                                                                                           |
| Dimension(mm)                          | 180 x 130 x 67.5                                                                                                                         |
| Net weight(Kg)                         | 2.15                                                                                                                                     |
| <b>Environment</b>                     |                                                                                                                                          |
| Operating temperature(°C)              | -20~70                                                                                                                                   |
| Storage temperature(°C)                | -40~85                                                                                                                                   |
| Humidity                               | 10 to 90% @ 40°C, non- condensing                                                                                                        |
| Certification                          | Meet CE/FCC Class A                                                                                                                      |
| <b>Operating System Support</b>        |                                                                                                                                          |
| Microsoft® Win10 IoT, Linux Kernel 3.0 |                                                                                                                                          |

## Machine Vision Controller with Lighting Control (MCU)



UNIT: mm  
Tolerance:  $\pm 0.5$

unit:mm



# Display & Open Frame Display

There is no doubt that APLEX offers a complete display products line for industrial applications. To widely promote to different applications, the long-term product lifecycle of the display is what APLEX focuses on, so we provide rugged construction including open-frame structure, stainless steel, metal chassis, aluminum die-casting and plastic enclosure. Additionally, concerning the maintenance issue, IP rated assurance ensures that the system operates normally after cleaning.

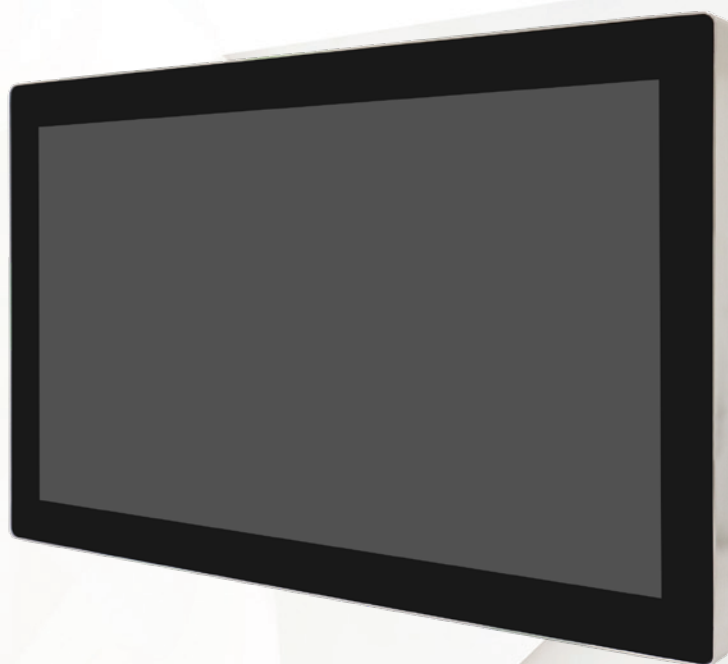
In high levels of ambient light environment, APLEX has built a high-brightness series of monitors which utilize LED backlight technology. In addition, the customer can choose either the VGA-only product or DVI-equipped model. All display products can be customized based on demands to satisfy each customer.



| Model Name     | PhanTAM-1A                                           | ViTAM-1                                                            | AEx-1                      |
|----------------|------------------------------------------------------|--------------------------------------------------------------------|----------------------------|
| Touch          | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch<br>Only Glass | Projected Capacitive Touch |
| Front Bezel    | Stainless Steel                                      | Stainless Steel                                                    | Stainless Steel            |
| VGA Input      | Yes                                                  | Yes                                                                | Yes                        |
| DVI Input      | No                                                   | No                                                                 | No                         |
| HDMI Input     | Yes                                                  | Yes                                                                | No                         |
| DP Input       | No                                                   | No                                                                 | No                         |
| Panel mounting | No                                                   | No                                                                 | Yes                        |
| VESA mounting  | Yes                                                  | Yes                                                                | Yes                        |
| AC Input       | No                                                   | No                                                                 | No                         |
| IP Rating      | Total IP66/IP69K                                     | Total IP66/IP69K                                                   | Total IP66/IP69K           |
| Display Size   | 15.6"/21.5"                                          | 10.1"/12.1"/15"<br>15.6"/17"/19"/21.5"/23.8                        | 15"/15.6"/19"/21.5"        |

| Model Name     | HELIO-1A                                             | ARCDIS-1A                                                          | FABS-1                                                             |
|----------------|------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| Touch          | Resistive Touch Window<br>Projected Capacitive Touch | Resistive Touch Window<br>Projected Capacitive Touch<br>Only Glass | Resistive Touch Window<br>Projected Capacitive Touch<br>Only Glass |
| Front Bezel    | Aluminum Die-casting                                 | Aluminum Die-casting                                               | Stainless Steel                                                    |
| VGA Input      | Yes                                                  | Yes                                                                | Yes                                                                |
| DVI Input      | No                                                   | Yes                                                                | Yes                                                                |
| HDMI Input     | Yes                                                  | Yes                                                                | Yes                                                                |
| DP Input       | Yes                                                  | Yes                                                                | Yes                                                                |
| Panel mounting | Yes                                                  | Yes                                                                | Yes                                                                |
| VESA mounting  | Yes                                                  | Yes                                                                | Yes                                                                |
| AC Input       | No                                                   | No                                                                 | No                                                                 |
| IP Rating      | Front IP66                                           | Front IP66                                                         | Front IP66/IP69K for option                                        |
| Display Size   | 10.1"/15.6"/21.5"                                    | 7"/8"/10.1"/12.1"/15"/15.6"<br>17"/18.5"/19"/21.5"/23.8"           | 7"/10.1"/12.1"/15"<br>15.6"/17"/18.5"/19"/21.5"                    |

| Model Name     | ADP-1XX4A              | OPD-1XX6               |
|----------------|------------------------|------------------------|
| Touch          | Resistive Touch Window | Resistive Touch Window |
| Front Bezel    | Steel                  | Open Frame             |
| VGA Input      | Yes                    | Yes                    |
| DVI Input      | Yes                    | Yes                    |
| HDMI Input     | Yes                    | Yes                    |
| DP Input       | Yes                    | Yes                    |
| Panel mounting | Yes                    | Yes                    |
| VESA mounting  | Yes                    | Yes                    |
| AC Input       | Option                 | No                     |
| IP Rating      | Front IP65             | IPX0                   |
| Display Size   | 15"/17"/19"/21.5"      | 8"/12.1"/15"           |



# PhanTAM-1XXA Series

IP66/IP69K Waterproof

Stainless Steel Display

- Ultra Slim Front Frame Design
- Special Hygienic Bolts on Rear Case
- Grade 304 Stainless Steel Enclosure
- IP66/IP69K Rated with M12 Connectors
- Wide Range 9~36V DC power input
- Rear side OSD



Support Resistive Touch, Projected Capacitive Touch



Touch on/off Button on the Side Edge for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors



Special Hygienic Bolts on Rear Case and Rear side OSD



Support Wide-Range Temperature -20°~60°C



# PhanTAM-1XXA Series

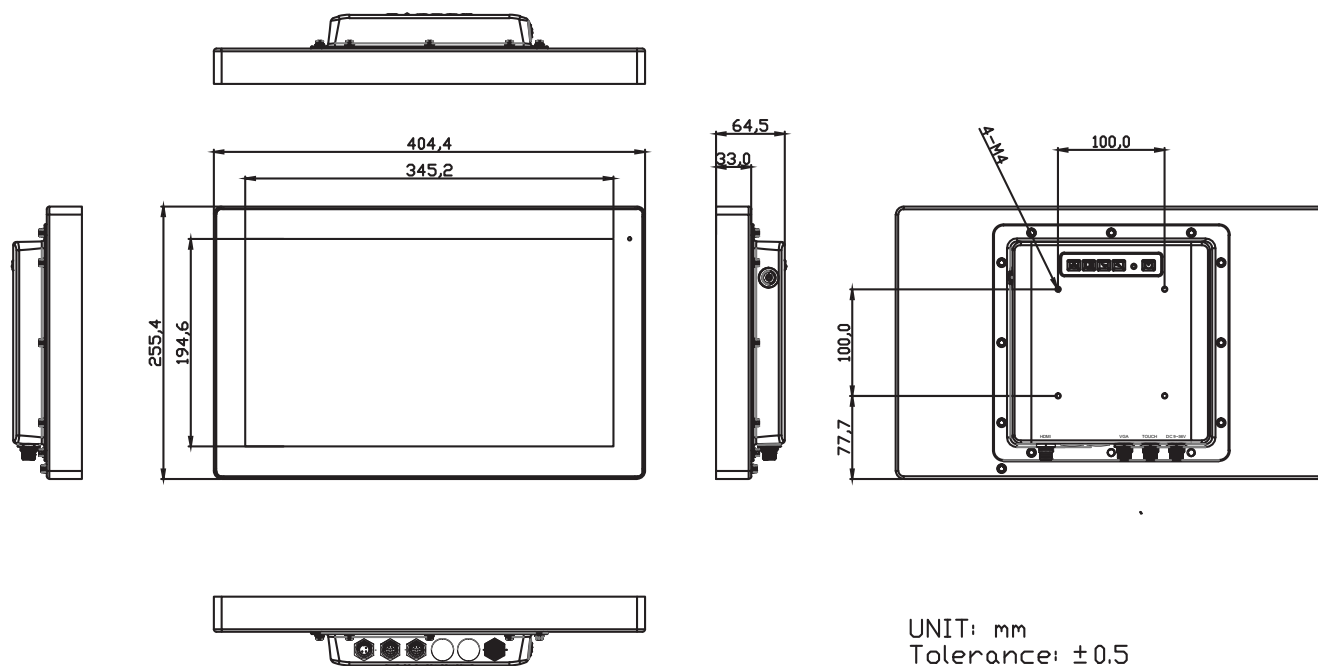
IP66/IP69K Stainless Steel Display



| Model Name                | PhanTAM-116APR(H)                                                 |                                                                               |             |         | PhanTAM-121APRG(H)         |         |
|---------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------|---------|----------------------------|---------|
| I/O Port                  |                                                                   |                                                                               |             |         |                            |         |
| VGA                       | 1 x M12 12-pin for VGA with waterproof cover and chain            |                                                                               |             |         |                            |         |
| HDMI                      | 1 x M12 7-pin for HDMI with waterproof cover                      |                                                                               |             |         |                            |         |
| USB                       | 1 x M12 8-pin for USB touch with waterproof cover                 |                                                                               |             |         |                            |         |
| Speaker                   | 1 x 2W IP65 speaker (option)                                      |                                                                               |             |         |                            |         |
| OSD Control Membrane      |                                                                   | OSD on the rear side                                                          |             |         |                            |         |
| Power connector           |                                                                   | 1 x M12 3-pin for DC power with waterproof cover                              |             |         |                            |         |
| Display                   |                                                                   |                                                                               |             |         |                            |         |
| Display type              |                                                                   | 15.6" TFT-LCD                                                                 |             |         | 21.5" TFT-LCD              |         |
| Max. resolution           | 1366 x 768                                                        |                                                                               | 1920 x 1080 |         | 1920 x 1080                |         |
| Max. color                | 16.7M                                                             | 16.2M                                                                         | 16.2M       | 16.7M   | 16.7M                      | 16.7M   |
| Luminance(cd/m²)          | 400                                                               | 1000                                                                          | 450         | 1000    | 250                        | 1000    |
| View angle(H°/V°)         | 170/160                                                           | 160/160                                                                       | 170/170     | 170/170 | 178/178                    | 178/178 |
| Contrast                  | 500:1                                                             | 500:1                                                                         | 800:1       | 800:1   | 1000:1                     | 1000:1  |
| Backlight lifetime(hrs)   | 50000                                                             | 50000                                                                         | 50000       | 50000   | 50000                      | 50000   |
| Touch Screen              |                                                                   |                                                                               |             |         |                            |         |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model) |                                                                               |             |         |                            |         |
| Interface                 | USB                                                               |                                                                               |             |         |                            |         |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%               |                                                                               |             |         |                            |         |
| Power                     |                                                                   |                                                                               |             |         |                            |         |
| Power input               |                                                                   | DC 9~36V                                                                      |             |         |                            |         |
| Power Consumption (TYP.)  | PhanTAM-116AP: 12.1W (MAX)                                        |                                                                               |             |         | PhanTAM-121AP: 14.7W (MAX) |         |
| Mechanical                |                                                                   |                                                                               |             |         |                            |         |
| Construction              |                                                                   | 304 Stainless steel chassis (default)<br>316 Stainless steel chassis (option) |             |         |                            |         |
| IP rating                 | Total IP66/IP69K                                                  |                                                                               |             |         |                            |         |
| Mounting                  |                                                                   | VESA Mount 100 x 100, "Swing ARM" Stand (option)                              |             |         |                            |         |
| Dimension(mm)             | 404.4 x 255.4 x 64.5                                              |                                                                               |             |         | 540.4 x 332.4 x 61.5       |         |
| Net weight(Kg)            | 4.85                                                              |                                                                               |             |         | 7.6                        |         |
| Environment               |                                                                   |                                                                               |             |         |                            |         |
| Operating temperature(°C) | 0~50                                                              |                                                                               |             |         |                            |         |
| Storage temperature(°C)   |                                                                   | -30~70                                                                        |             |         |                            |         |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                 |                                                                               |             |         |                            |         |
| Certification             | CE/FCC Class A                                                    |                                                                               |             |         |                            |         |

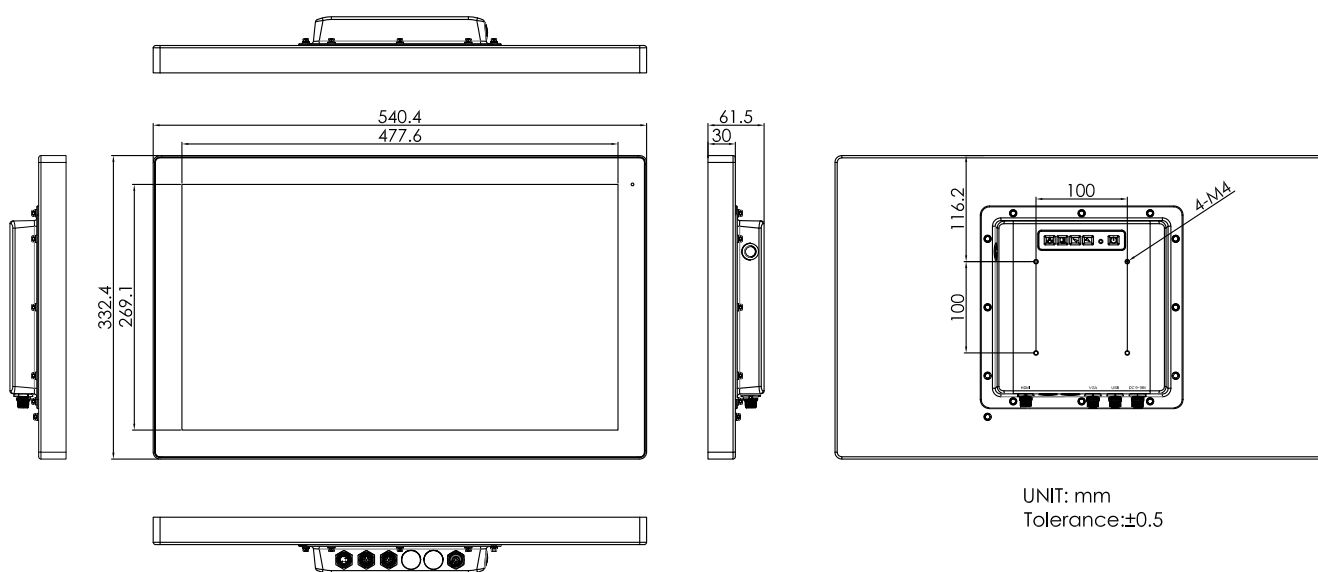


## PhanTAM-116A P/R(H)



unit:mm

## PhanTAM-121A P/R(H)



unit:mm

# PhanTAM-1XXA Series

IP66/IP69K Stainless Steel Display

## Ordering information

| Model NO.             | Description                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PhanTAM-116AP</b>  | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter                    |
| <b>PhanTAM-116AR</b>  | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter                 |
| <b>PhanTAM-116APH</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD    |
| <b>PhanTAM-116ARH</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>PhanTAM-121AP</b>  | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter                     |
| <b>PhanTAM-121AR</b>  | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter                  |
| <b>PhanTAM-121APH</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>PhanTAM-121ARH</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD  |



# ViTAM-1XX Series

IP66/IP69K Waterproof

Stainless Steel Display

- True Flat Front Bezel Design
- Grade 304 Stainless Steel Enclosure  
(Grade 316 for Option)
- IP66/IP69K Rated with M12 Connectors
- Wide Range 9~36V DC power input
- Rear side OSD



Support Resistive Touch, Projected Capacitive Touch, and Glass



Touch on/off Button on the Side Edge for Hygienic Cleaning



IP66/IP69K Rated with M12 Connectors



Support Ergonomic Versatile Mounting Space-saving VESA Mounting



Support Wide-Range Temperature -20°~60°C



# ViTAM-1XX Series

IP66/IP69K Stainless Steel Display



| Model Name                | VITAM-110PRG(H)                                                                         |                                                  |                                        | VITAM-112PRG(H)                           |                                        |                                           | VITAM-115PRG(H) |            |
|---------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|-----------------|------------|
| I/O Port                  |                                                                                         |                                                  |                                        |                                           |                                        |                                           |                 |            |
| VGA                       |                                                                                         | 1 x M12 12-pin for VGA with waterproof cover     |                                        |                                           |                                        |                                           |                 |            |
| DVI                       |                                                                                         | None                                             |                                        |                                           |                                        |                                           |                 |            |
| HDMI                      |                                                                                         | 1 x W.F. HDMI with waterproof cap                |                                        |                                           |                                        |                                           |                 |            |
| USB                       |                                                                                         | 1 x USB 2.0 with waterproof cover                |                                        |                                           |                                        |                                           |                 |            |
| Speaker                   |                                                                                         | 1 x 2W IP65 speaker (optional)                   |                                        |                                           |                                        |                                           |                 |            |
| OSD Control Membrane      |                                                                                         | OSD on the rear side                             |                                        |                                           |                                        |                                           |                 |            |
| Power connector           |                                                                                         | 1 x M12 3-pin for DC power with waterproof cover |                                        |                                           |                                        |                                           |                 |            |
| Display                   | VITAM-110P<br>VITAM-110R<br>VITAM-110G                                                  | VITAM-110PH<br>VITAM-110RH<br>VITAM-110GH        | VITAM-112P<br>VITAM-112R<br>VITAM-112G | VITAM-112PH<br>VITAM-112RH<br>VITAM-112GH | VITAM-115P<br>VITAM-115R<br>VITAM-115G | VITAM-115PH<br>VITAM-115RH<br>VITAM-115GH |                 |            |
| Display type              | 10.1" TFT-LCD                                                                           |                                                  |                                        | 12.1" TFT-LCD                             |                                        |                                           | 15" TFT-LCD     |            |
| Max. resolution           | 1280 x 800                                                                              |                                                  |                                        | 800 x 600                                 | 1024x768                               | 800 x 600                                 | 1024x768        | 1024 x 768 |
| Max. color                | 16.7M                                                                                   | 16.2M                                            | 16.2M                                  | 16.2M                                     | 16.2M                                  | 16.2M                                     | 16.2M/262K      | 16.7M      |
| Luminance(cd/m²)          | 350                                                                                     | 1000                                             | 450                                    | 500                                       | 1000                                   | 1000                                      | 300             | 1000       |
| View angle(H°/V°)         | 170/170                                                                                 | 170/170                                          | 178/178                                | 178/178                                   | 178/178                                | 178/178                                   | 176/176         | 176/176    |
| Contrast                  | 800:1                                                                                   | 1300:1                                           | 1500:1                                 | 1000:1                                    | 700:1                                  | 1000:1                                    | 2000:1          | 3000:1     |
| Backlight lifetime(hrs)   | 30000                                                                                   | 50000                                            | 50000                                  | 30000                                     | 50000                                  | 70000                                     | 70000           | 70000      |
| Option                    | Optical bonding                                                                         |                                                  |                                        | Optical bonding                           |                                        |                                           | Optical bonding |            |
| Touch Screen              |                                                                                         |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Interface                 | USB                                                                                     |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Power                     |                                                                                         |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Power input               | DC 9~36V                                                                                |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Power Consumption (TYP.)  | VITAM-110P: 6W                                                                          |                                                  |                                        | VITAM-112P: 8W                            |                                        |                                           | VITAM-115P: 9W  |            |
| Mechanical                |                                                                                         |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Construction              | 304 Stainless steel chassis (default)<br>316 Stainless steel chassis (option)           |                                                  |                                        |                                           |                                        |                                           |                 |            |
| IP rating                 | Total IP66/IP69K                                                                        |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Mounting                  | VESA Mount 100 x 100, Yoke mount (option)                                               |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Dimension(mm)             | 330 x 220 x 53                                                                          |                                                  |                                        | 335 x 265 x 53                            |                                        |                                           | 399 x 324 x 53  |            |
| Net weight(Kg)            | 3.6                                                                                     |                                                  |                                        | 4.6                                       |                                        |                                           | 6.5             |            |
| Environment               |                                                                                         |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Operating temperature(°C) | 0~50 / -20~60 (option)                                                                  |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Storage temperature(°C)   | -30~70                                                                                  |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                       |                                                  |                                        |                                           |                                        |                                           |                 |            |
| Certification             | CE/FCC Class A                                                                          |                                                  |                                        |                                           |                                        |                                           |                 |            |

# ViTAM-1XX Series

IP66/IP69K Stainless Steel Display



| Model Name                | ViTAM-116PRG(H)                                                                         |                                           | ViTAM-117PRG(H)                        |                                           | ViTAM-119PRG(H)                        |                                           |
|---------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|
| I/O Port                  |                                                                                         |                                           |                                        |                                           |                                        |                                           |
| VGA                       | 1 x M12 12-pin for VGA with waterproof cover                                            |                                           |                                        |                                           |                                        |                                           |
| DVI                       | None                                                                                    |                                           |                                        |                                           |                                        |                                           |
| HDMI                      | 1 x W.F. HDMI with waterproof cap                                                       |                                           |                                        |                                           |                                        |                                           |
| USB                       | 1 x USB 2.0 with waterproof cover                                                       |                                           |                                        |                                           |                                        |                                           |
| Speaker                   | 1 x 2W IP65 speaker (optional)                                                          |                                           |                                        |                                           |                                        |                                           |
| OSD Control Membrane      | OSD on the rear side                                                                    |                                           |                                        |                                           |                                        |                                           |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover                                        |                                           |                                        |                                           |                                        |                                           |
| Display                   | ViTAM-116P<br>ViTAM-116R<br>ViTAM-116G                                                  | ViTAM-116PH<br>ViTAM-116RH<br>ViTAM-116GH | ViTAM-117P<br>ViTAM-117R<br>ViTAM-117G | ViTAM-117PH<br>ViTAM-117RH<br>ViTAM-117GH | ViTAM-119P<br>ViTAM-119R<br>ViTAM-119G | ViTAM-119PH<br>ViTAM-119RH<br>ViTAM-119GH |
| Display type              | 15.6" TFT-LCD                                                                           |                                           | 17" TFT-LCD                            |                                           | 19" TFT-LCD                            |                                           |
| Max. resolution           | 1366 x 768                                                                              |                                           | 1280 x 1024                            |                                           | 1280 x 1024                            |                                           |
| Max. color                | 16.7M                                                                                   | 16.7M                                     | 16.2M                                  | 16.7M                                     | 16.7M                                  | 16.7M                                     |
| Luminance(cd/m²)          | 400                                                                                     | 1000                                      | 350                                    | 1000                                      | 350                                    | 1000                                      |
| View angle(H°/V°)         | 170/160                                                                                 | 160/160                                   | 170/160                                | 160/140                                   | 170/160                                | 170/160                                   |
| Contrast                  | 500:1                                                                                   | 500:1                                     | 1000:1                                 | 800:1                                     | 1000:1                                 | 1000:1                                    |
| Backlight lifetime(hrs)   | 50000                                                                                   | 50000                                     | 30000                                  | 50000                                     | 50000                                  | 50000                                     |
| Option                    | Optical bonding                                                                         |                                           | Optical bonding                        |                                           | Optical bonding                        |                                           |
| Touch Screen              |                                                                                         |                                           |                                        |                                           |                                        |                                           |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |                                           |                                        |                                           |                                        |                                           |
| Interface                 | USB                                                                                     |                                           |                                        |                                           |                                        |                                           |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |                                           |                                        |                                           |                                        |                                           |
| Power                     |                                                                                         |                                           |                                        |                                           |                                        |                                           |
| Power input               | DC 9~36V                                                                                |                                           |                                        |                                           |                                        |                                           |
| Power Consumption (TYP.)  | ViTAM-116P: 13W                                                                         |                                           | ViTAM-117P: 19W                        |                                           | ViTAM-119P: 19W                        |                                           |
| Mechanical                |                                                                                         |                                           |                                        |                                           |                                        |                                           |
| Construction              | 304 Stainless steel chassis (default)<br>316 Stainless steel chassis (option)           |                                           |                                        |                                           |                                        |                                           |
| IP rating                 | Total IP66/IP69K                                                                        |                                           |                                        |                                           |                                        |                                           |
| Mounting                  | VESA Mount 100 x 100, Yoke mount (option)                                               |                                           |                                        |                                           |                                        |                                           |
| Dimension(mm)             | 440 x 290 x 55                                                                          |                                           | 432 x 358 x 55                         |                                           | 470 x 388 x 60                         |                                           |
| Net weight(Kg)            | 6.5                                                                                     |                                           | 7.5                                    |                                           | 8.8                                    |                                           |
| Environment               |                                                                                         |                                           |                                        |                                           |                                        |                                           |
| Operating temperature(°C) | 0~50                                                                                    |                                           |                                        |                                           |                                        |                                           |
| Storage temperature(°C)   | -30~70                                                                                  |                                           |                                        |                                           |                                        |                                           |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                       |                                           |                                        |                                           |                                        |                                           |
| Certification             | CE/FCC Class A                                                                          |                                           |                                        |                                           |                                        |                                           |

Stainless Steel Panel PC

Industrial Panel PC

HMI

Embedded Box PC

Display

# ViTAM-1XX Series

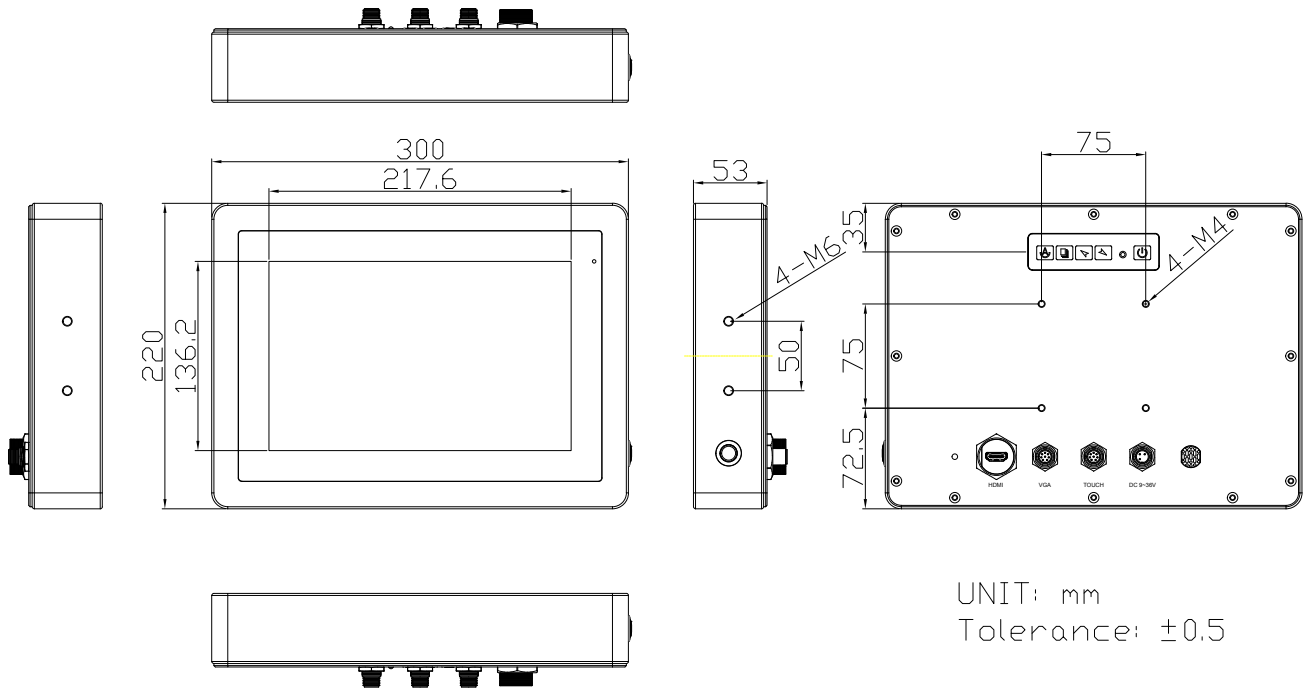
IP66/IP69K Stainless Steel Display



| Model Name                | VITAM-121PRG(H)                                                                         |                                           | VITAM-124PG(H)ViTAM-124G(H)                             |                            |
|---------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------|----------------------------|
| I/O Port                  |                                                                                         |                                           |                                                         |                            |
| VGA                       | 1 x M12 12-pin for VGA with waterproof cover                                            |                                           |                                                         |                            |
| DVI                       | None                                                                                    |                                           |                                                         |                            |
| HDMI                      | 1 x W.F. HDMI with waterproof cap                                                       |                                           |                                                         |                            |
| USB                       | 1 x USB 2.0 with waterproof cover                                                       |                                           |                                                         |                            |
| Speaker                   | 1 x 2W IP65 speaker (optional)                                                          |                                           |                                                         |                            |
| OSD Control Membrane      | OSD on the rear side                                                                    |                                           |                                                         |                            |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover                                        |                                           |                                                         |                            |
| Display                   | ViTAM-121P<br>ViTAM-121R<br>ViTAM-121G                                                  | ViTAM-121PH<br>ViTAM-121RH<br>ViTAM-121GH | ViTAM-124P<br>ViTAM-124G                                | ViTAM-124PH<br>ViTAM-124GH |
| Display type              | 21.5" TFT-LCD                                                                           |                                           | 23.8" TFT-LCD                                           |                            |
| Max. resolution           | 1920 x 1080                                                                             |                                           | 1920 x 1080                                             |                            |
| Max. color                | 16.7M                                                                                   | 16.7M                                     | 16.7M                                                   | 16.7M                      |
| Luminance(cd/m²)          | 250                                                                                     | 1000                                      | 250                                                     | 1000                       |
| View angle(H°/V°)         | 178/178                                                                                 | 178/178                                   | 178/178                                                 | 178/178                    |
| Contrast                  | 3000:1                                                                                  | 3000:1                                    | 1000:1                                                  | 1000:1                     |
| Backlight lifetime(hrs)   | 30000                                                                                   | 50000                                     | 50000                                                   | 50000                      |
| Option                    | Optical bonding                                                                         |                                           | Optical bonding                                         |                            |
| Touch Screen              |                                                                                         |                                           |                                                         |                            |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |                                           | Projected Capacitive(For P model)<br>Glass(For G model) |                            |
| Interface                 | USB                                                                                     |                                           |                                                         |                            |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |                                           | 90%                                                     |                            |
| Power                     |                                                                                         |                                           |                                                         |                            |
| Power input               | DC 9~36V                                                                                |                                           |                                                         |                            |
| Power Consumption (TYP.)  | VITAM-121P: 19W                                                                         |                                           | VITAM-124P: 32W                                         |                            |
| Mechanical                |                                                                                         |                                           |                                                         |                            |
| Construction              | 304 Stainless steel chassis (default)<br>316 Stainless steel chassis (option)           |                                           |                                                         |                            |
| IP rating                 | Total IP66/IP69K                                                                        |                                           |                                                         |                            |
| Mounting                  | VESA Mount 100 x 100, Yoke mount (option)                                               |                                           | VESA Mount 200 x 100, Yoke mount (option)               |                            |
| Dimension(mm)             | 571 x 362 x 55                                                                          |                                           | 656 x 423 x 53                                          |                            |
| Net weight(Kg)            | 9.5                                                                                     |                                           | 12.6                                                    |                            |
| Environment               |                                                                                         |                                           |                                                         |                            |
| Operating temperature(°C) | 0~50                                                                                    |                                           |                                                         |                            |
| Storage temperature(°C)   | -30~70                                                                                  |                                           |                                                         |                            |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                       |                                           |                                                         |                            |
| Certification             | CE/FCC Class A                                                                          |                                           |                                                         |                            |

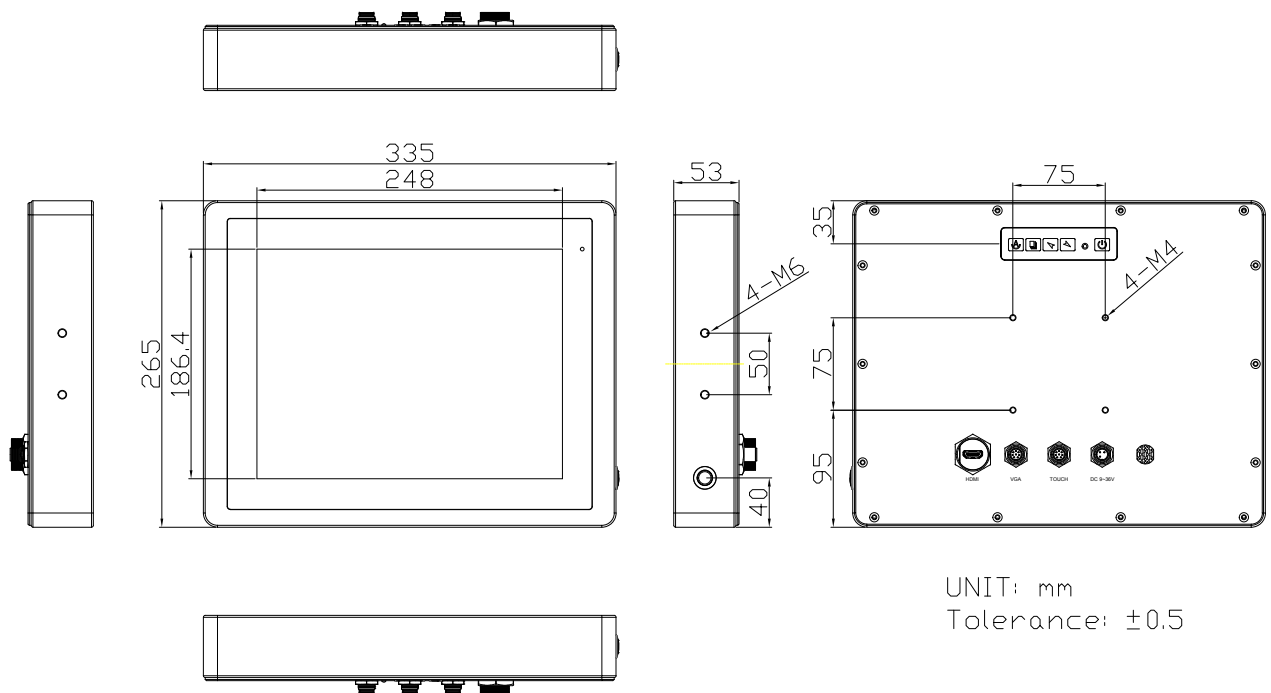


## ViTAM-110 P/R/G(H)



unit:mm

## ViTAM-112 P/R/G(H)

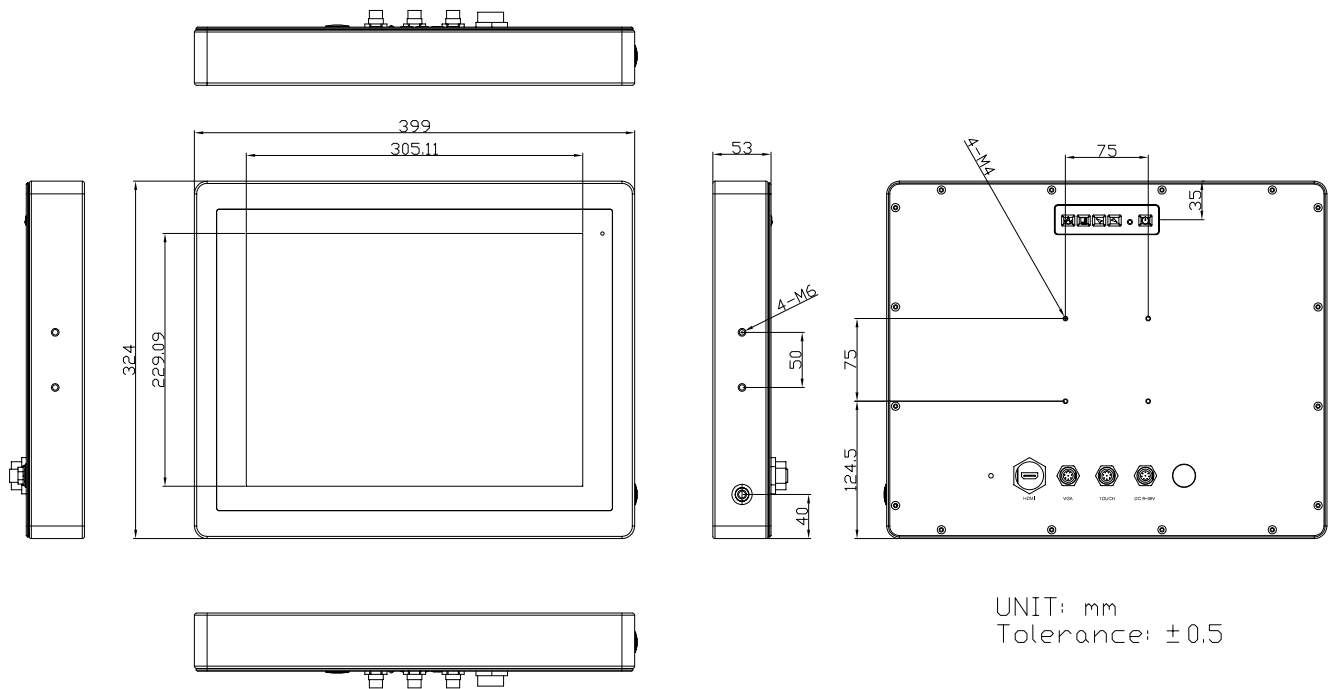


unit:mm

## ViTAM-1XX Series

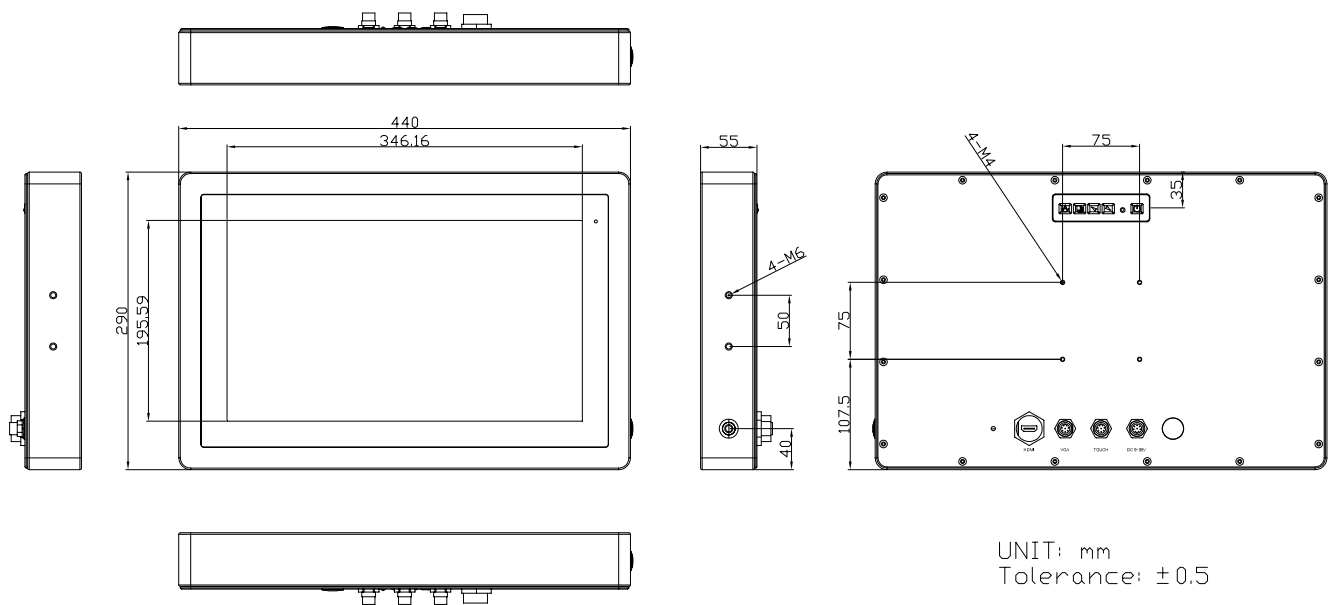
IP66/IP69K Stainless Steel Display

### ViTAM-115 P/R/G(H)



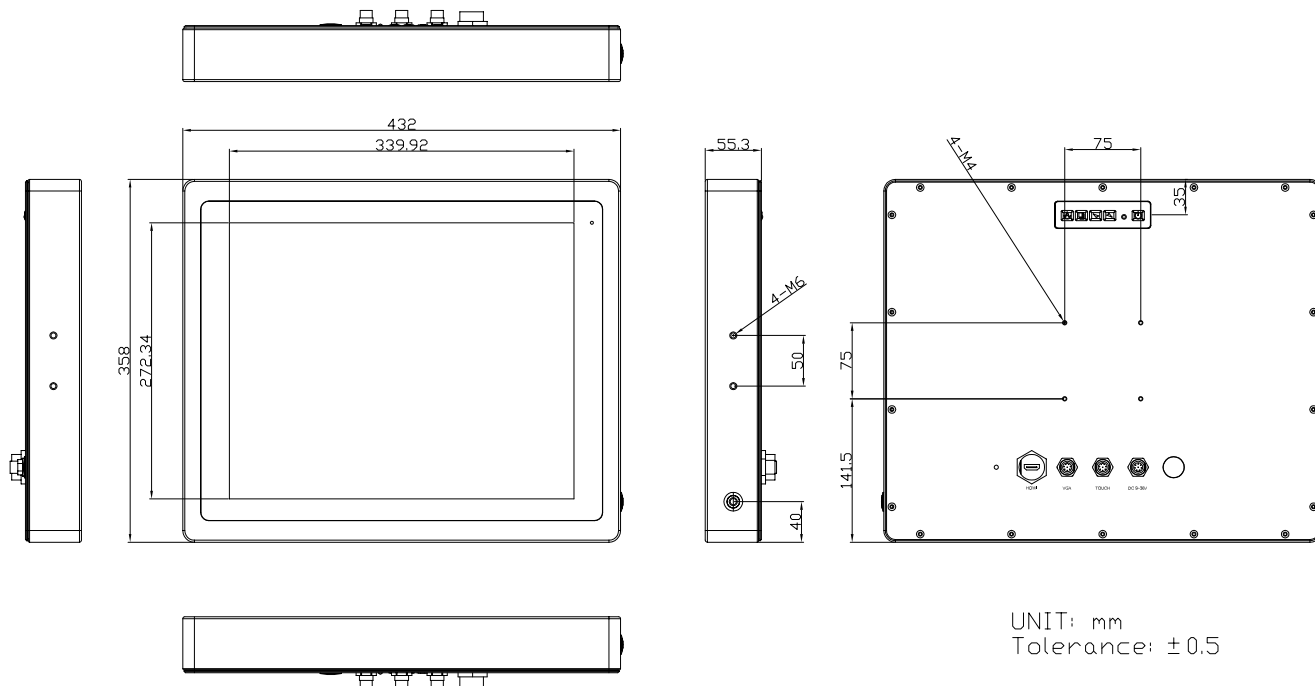
unit:mm

### ViTAM-116 P/R/G(H)



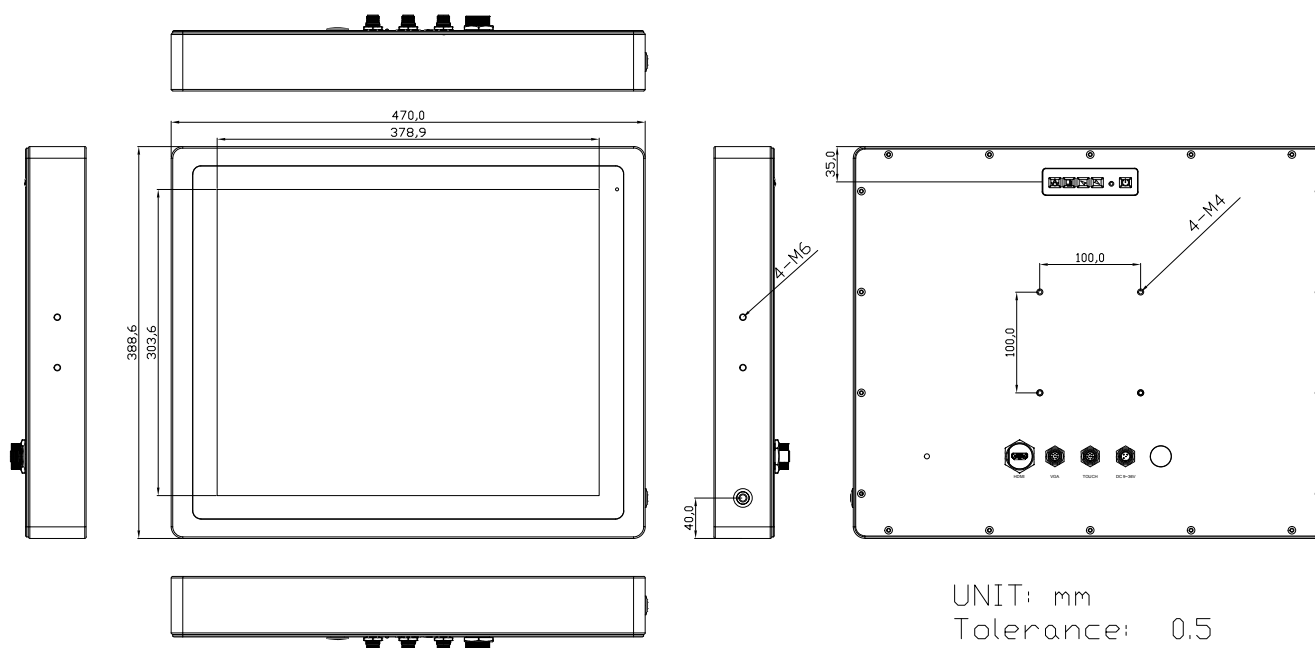
unit:mm

## ViTAM-117 P/R/G(H)



unit:mm

## ViTAM-119 P/R/G(H)

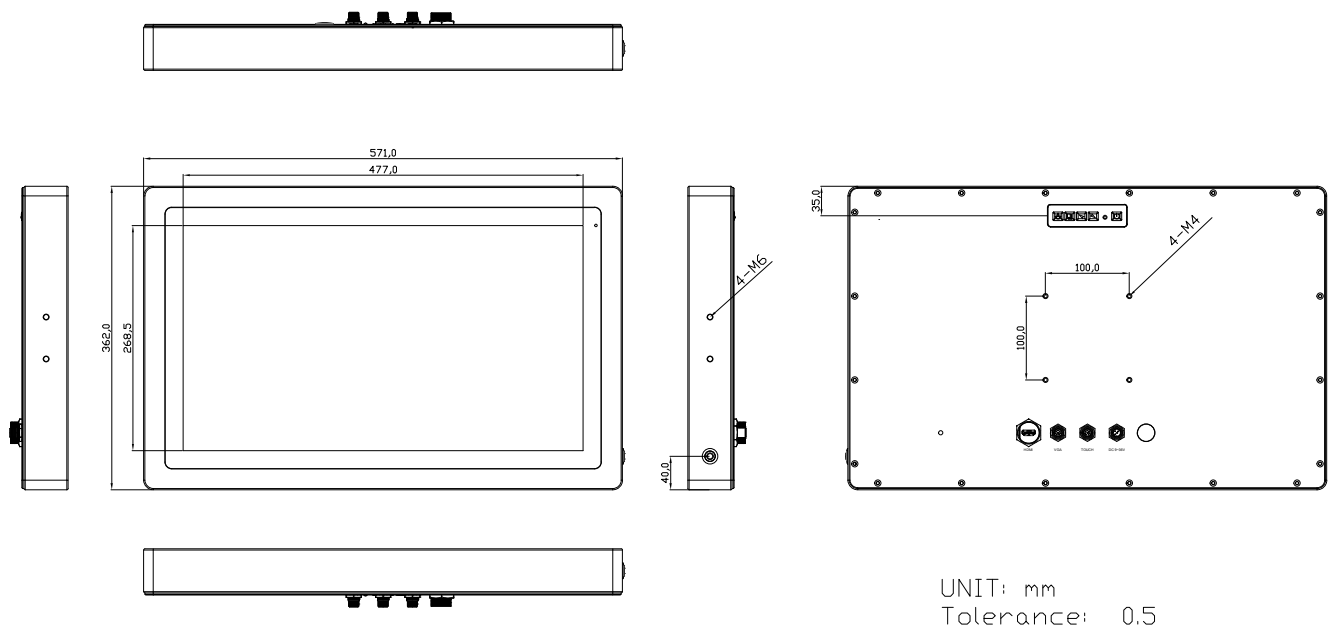


unit:mm

## ViTAM-1XX Series

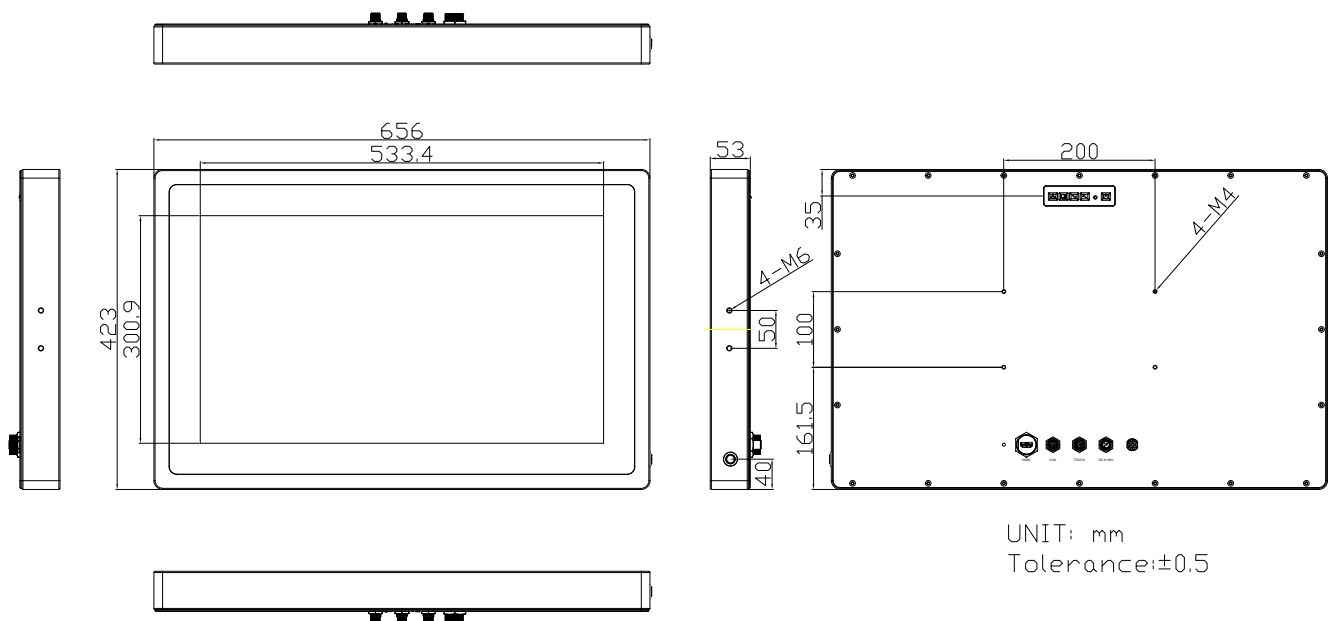
IP66/IP69K Stainless Steel Display

### ViTAM-121 P/R/G(H)



unit:mm

### ViTAM-124 P/G(H)



unit:mm

## Ordering information

| Model NO.         | Description                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ViTAM-110G</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                  |
| <b>ViTAM-110P</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter        |
| <b>ViTAM-110R</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter     |
| <b>ViTAM-112G</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                  |
| <b>ViTAM-112P</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter        |
| <b>ViTAM-112R</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter     |
| <b>ViTAM-115G</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                     |
| <b>ViTAM-115P</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter           |
| <b>ViTAM-115R</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter        |
| <b>ViTAM-116G</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                  |
| <b>ViTAM-116P</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter        |
| <b>ViTAM-116R</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter     |
| <b>ViTAM-117G</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                    |
| <b>ViTAM-117P</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter          |
| <b>ViTAM-117R</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter       |
| <b>ViTAM-119G</b> | 19" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                    |
| <b>ViTAM-119P</b> | 19" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter          |
| <b>ViTAM-119R</b> | 19" SXGA IP66/IP69K stainless steel panel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter |
| <b>ViTAM-121G</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                   |
| <b>ViTAM-121P</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter         |
| <b>ViTAM-121R</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter      |
| <b>ViTAM-124G</b> | 23.8" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter                   |
| <b>ViTAM-124P</b> | 23.8" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter         |

# ViTAM-1XX Series

IP66/IP69K Stainless Steel Display

## Ordering information

| Model NO.          | Description                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>VITAM-110GH</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                  |
| <b>VITAM-110PH</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD        |
| <b>VITAM-110RH</b> | 10.1" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>VITAM-112GH</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                  |
| <b>VITAM-112PH</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD        |
| <b>VITAM-112RH</b> | 12.1" SVGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>VITAM-115GH</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                     |
| <b>VITAM-115PH</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD           |
| <b>VITAM-115RH</b> | 15" XGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD        |
| <b>VITAM-116GH</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                  |
| <b>VITAM-116PH</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD        |
| <b>VITAM-116RH</b> | 15.6" WXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD     |
| <b>VITAM-117GH</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                    |
| <b>VITAM-117PH</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD          |
| <b>VITAM-117RH</b> | 17" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD       |
| <b>VITAM-119GH</b> | 19" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                    |
| <b>VITAM-119PH</b> | 19" SXGA IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD          |
| <b>VITAM-119RH</b> | 19" SXGA IP66/IP69K stainless steel panel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD |
| <b>VITAM-121GH</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                   |
| <b>VITAM-121PH</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD         |
| <b>VITAM-121RH</b> | 21.5" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, 5 wire resistive touch window, 9~36V DC power input with Adapter, 1,000 nits LCD      |
| <b>VITAM-124GH</b> | 23.8" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, protection glass, 9~36V DC power input with Adapter, 1,000 nits LCD                   |
| <b>VITAM-124PH</b> | 23.8" FHD IP66/IP69K stainless steel display, VGA/HDMI input, OSD on the rear side, projected capacitive touch, 9~36V DC power input with Adapter, 1,000 nits LCD         |



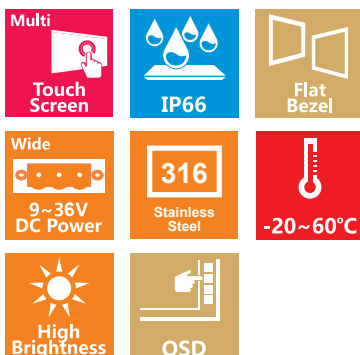


# AEx-1XXP(H) Series

Stainless Steel Display for Hazardous Locations

ATEX/IECEX/C1D2 Certified Display

- Full Flat Bezel and Fanless Design
- Total IP66 Grade with M12 Waterproof connector
- Wide Range DC 9~36V Power Input
- Support Panel & VESA mount
- High Brightness
- Stainless Steel OSD Function Key



SS316 Stainless Steel



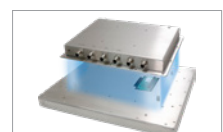
Full Flat Bezel and Fanless Design



Total IP66 Grade with M12 Waterproof Connector



Modular Design



Stainless Steel OSD Function Key



# AEx-1XXP(H) Series

ATEX/IECEX/C1D2 Certified Display



## Specifications

| Model Name                | AEX-115P                                                                                                                                                                                                                                                                               |  | AEX-115PH      | AEX-116P       |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|----------------|
| I/O Port                  |                                                                                                                                                                                                                                                                                        |  |                |                |
| VGA                       | 1 x M12 12-pin for VGA with waterproof cover and chain                                                                                                                                                                                                                                 |  |                |                |
| OSD Control               | 1 x OSD cable & external OSD Box                                                                                                                                                                                                                                                       |  |                |                |
| Other                     | 1 x M12 8-pin for USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                              |  |                |                |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover and chain                                                                                                                                                                                                                             |  |                |                |
| Display                   |                                                                                                                                                                                                                                                                                        |  |                |                |
| Display type              | 15" TFT-LCD                                                                                                                                                                                                                                                                            |  | 15" TFT-LCD    | 15.6" TFT-LCD  |
| Max. resolution           | 1024 x 768                                                                                                                                                                                                                                                                             |  | 1024 x 768     | 1366 x 768     |
| Max. color                | 16.2M                                                                                                                                                                                                                                                                                  |  | 16.2M          | 16.2M          |
| Luminance(cd/m²)          | 450                                                                                                                                                                                                                                                                                    |  | 1000           | 400            |
| View angle(H°/V°)         | 160/150                                                                                                                                                                                                                                                                                |  | 160/150        | 160/140        |
| Contrast                  | 800: 1                                                                                                                                                                                                                                                                                 |  | 800: 1         | 700: 1         |
| Backlight lifetime(hrs)   | 70000                                                                                                                                                                                                                                                                                  |  | 50000          | 50000          |
| Touch Screen              |                                                                                                                                                                                                                                                                                        |  |                |                |
| Type                      | Projected Capacitive Touch                                                                                                                                                                                                                                                             |  |                |                |
| Interface                 | USB                                                                                                                                                                                                                                                                                    |  |                |                |
| Light transmission(%)     | 90%                                                                                                                                                                                                                                                                                    |  |                |                |
| Power                     |                                                                                                                                                                                                                                                                                        |  |                |                |
| Power input               | 9~36V DC                                                                                                                                                                                                                                                                               |  |                |                |
| Power Consumption (TYP.)  | AEX-115P: 10W                                                                                                                                                                                                                                                                          |  |                | AEX-116P: 13W  |
| Mechanical                |                                                                                                                                                                                                                                                                                        |  |                |                |
| Construction              | 316 Stainless steel chassis                                                                                                                                                                                                                                                            |  |                |                |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                             |  |                |                |
| Mounting                  | VESA Mount 100 x 100, Pamel Mount (option)                                                                                                                                                                                                                                             |  |                |                |
| Dimension(mm)             | 399 x 324 x 70                                                                                                                                                                                                                                                                         |  | 399 x 324 x 70 | 440 x 290 x 75 |
| Net weight(Kg)            | 8.5                                                                                                                                                                                                                                                                                    |  | 8.5            | 9.6            |
| Environment               |                                                                                                                                                                                                                                                                                        |  |                |                |
| Operating temperature(°C) | -20~60                                                                                                                                                                                                                                                                                 |  |                |                |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                                 |  |                |                |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                                                                                                                                                                                                                      |  |                |                |
| Safety                    | Meet CSA C22.2 No.61010                                                                                                                                                                                                                                                                |  |                |                |
| Certification             | Meet CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAE 22UKEX 1073X |  |                |                |



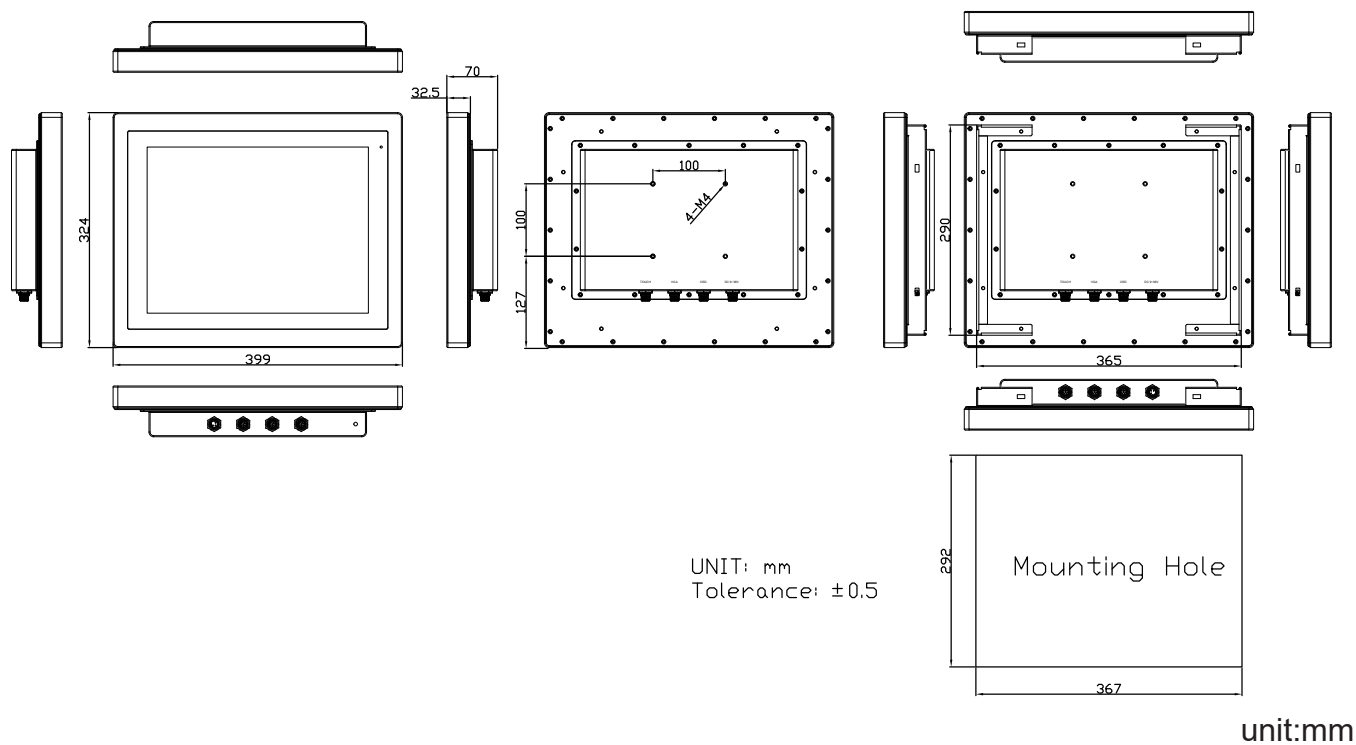
## Specifications

| Model Name                | AEX-119P                                                                                                                                                                                                                                                                               | AEX-119PH        | AEX-121P         |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| I/O Port                  |                                                                                                                                                                                                                                                                                        |                  |                  |
| VGA                       | 1 x M12 12-pin for VGA with waterproof cover and chain                                                                                                                                                                                                                                 |                  |                  |
| OSD Control               | 1 x OSD cable & external OSD Box                                                                                                                                                                                                                                                       |                  |                  |
| Other                     | 1 x M12 8-pin for USB 2.0 with waterproof cover and chain                                                                                                                                                                                                                              |                  |                  |
| Power connector           | 1 x M12 3-pin for DC power with waterproof cover and chain                                                                                                                                                                                                                             |                  |                  |
| Display                   |                                                                                                                                                                                                                                                                                        |                  |                  |
| Display type              | 19" TFT-LCD                                                                                                                                                                                                                                                                            | 19" TFT-LCD      | 21.5" TFT-LCD    |
| Max. resolution           | 1280 x 1024                                                                                                                                                                                                                                                                            | 1280 x 1024      | 1920 x 1080      |
| Max. color                | 16.7M                                                                                                                                                                                                                                                                                  | 16.7M            | 16.7M            |
| Luminance(cd/m²)          | 350                                                                                                                                                                                                                                                                                    | 1000             | 300              |
| View angle(H°/V°)         | 170/160                                                                                                                                                                                                                                                                                | 170/160          | 178/178          |
| Contrast                  | 1000:1                                                                                                                                                                                                                                                                                 | 1000:1           | 3000:1           |
| Backlight lifetime(hrs)   | 70000                                                                                                                                                                                                                                                                                  | 70000            | 50000            |
| Touch Screen              |                                                                                                                                                                                                                                                                                        |                  |                  |
| Type                      | Projected Capacitive Touch                                                                                                                                                                                                                                                             |                  |                  |
| Interface                 | USB                                                                                                                                                                                                                                                                                    |                  |                  |
| Light transmission(%)     | 90%                                                                                                                                                                                                                                                                                    |                  |                  |
| Power                     |                                                                                                                                                                                                                                                                                        |                  |                  |
| Power input               | DC 9~36V                                                                                                                                                                                                                                                                               |                  |                  |
| Power Consumption (TYP.)  | AEX-119P: 21W                                                                                                                                                                                                                                                                          |                  | AEX-121P: 20W    |
| Mechanical                |                                                                                                                                                                                                                                                                                        |                  |                  |
| Construction              | 316 Stainless steel chassis                                                                                                                                                                                                                                                            |                  |                  |
| IP rating                 | Total IP66                                                                                                                                                                                                                                                                             |                  |                  |
| Mounting                  | VESA Mount 100 x 100, Pamel Mount (option)                                                                                                                                                                                                                                             |                  |                  |
| Dimension(mm)             | 470 x 388.6 x 75                                                                                                                                                                                                                                                                       | 470 x 388.6 x 75 | 571 x 362 x 75.1 |
| Net weight(Kg)            | 11.5                                                                                                                                                                                                                                                                                   | 11.5             | 12.3             |
| Environment               |                                                                                                                                                                                                                                                                                        |                  |                  |
| Operating temperature(°C) | -20~60                                                                                                                                                                                                                                                                                 |                  |                  |
| Storage temperature(°C)   | -30~70                                                                                                                                                                                                                                                                                 |                  |                  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                                                                                                                                                                                                                      |                  |                  |
| Safety                    | Meet CSA C22.2 No.61010                                                                                                                                                                                                                                                                |                  |                  |
| Certification             | Meet CE / FCC Class A<br>ATEX / IECEx Zone2 Ex ec ic IIC T4 Gc<br>ATEX / IECEx Zone22 Ex tc IIIC T135°C Dc<br>Class I, Division2, Group A,B,C,D,T4<br>Class II, Division2, Group F,G, T135°C<br>Class III<br>ANSI/ISA 12.12.01-2013<br>CSA Std. C22.2 No213-M1987<br>CSAF 22UKEX 1073X |                  |                  |

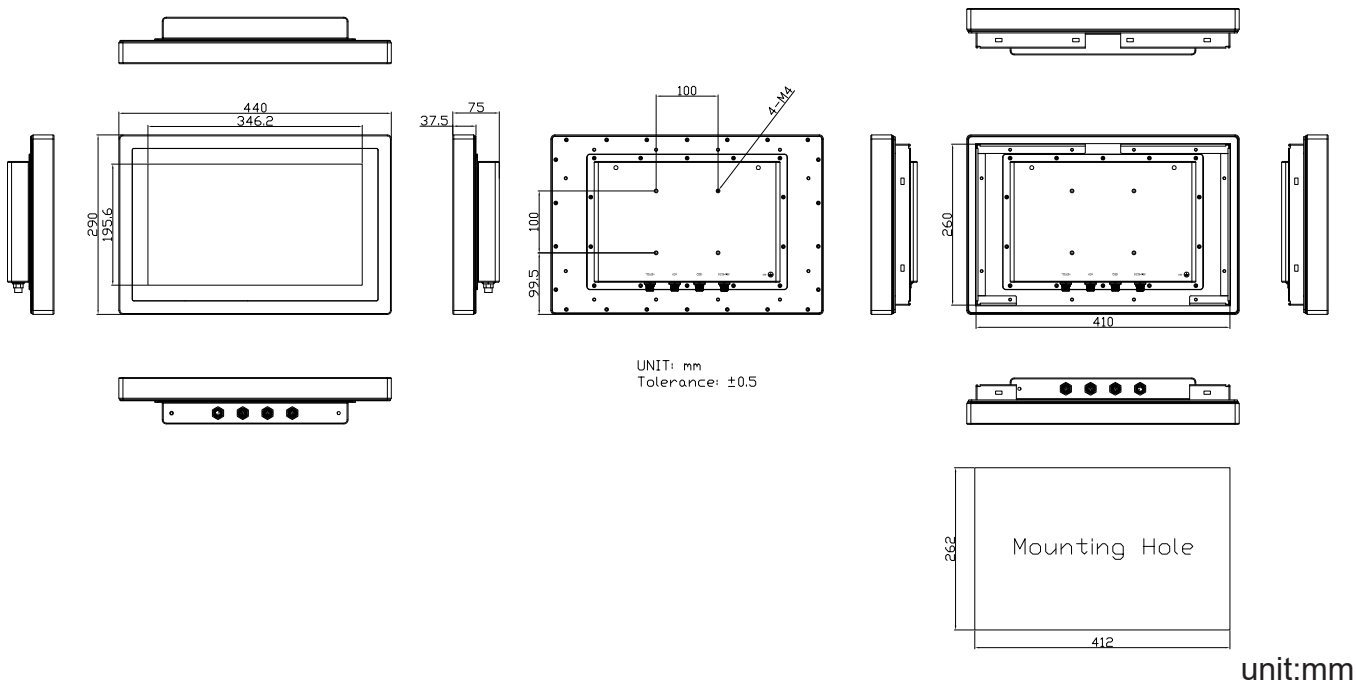
# AEx-1XXP(H) Series

ATEX/IECEX/C1D2 Certified Display

## AEX-115P(H)



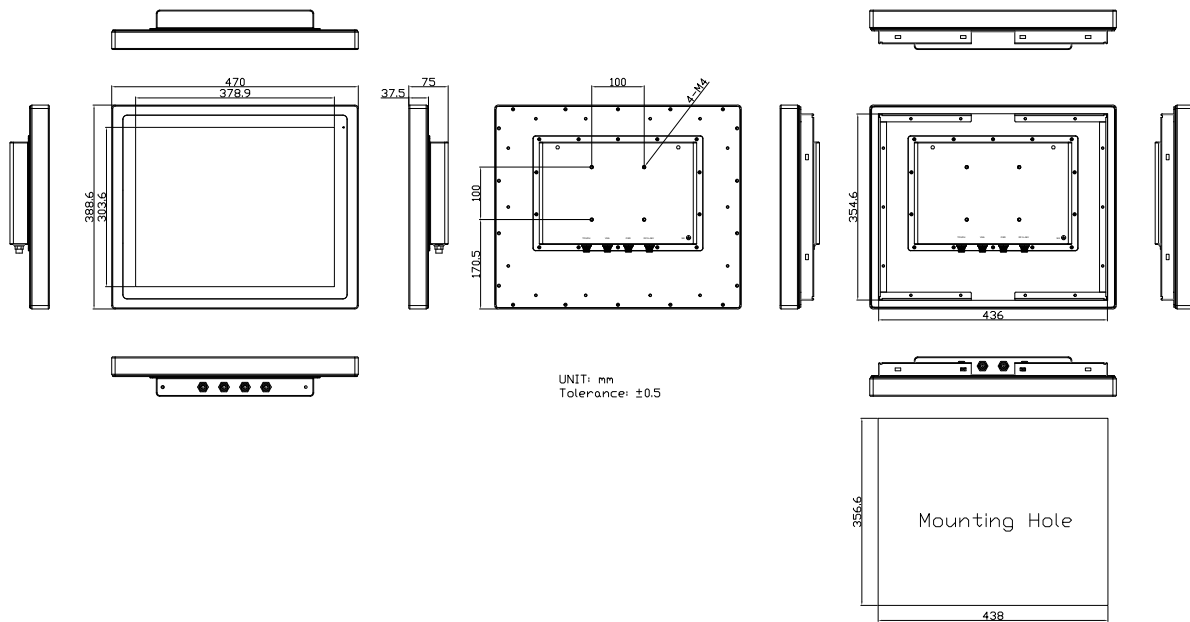
## AEX-116P



## Ordering information

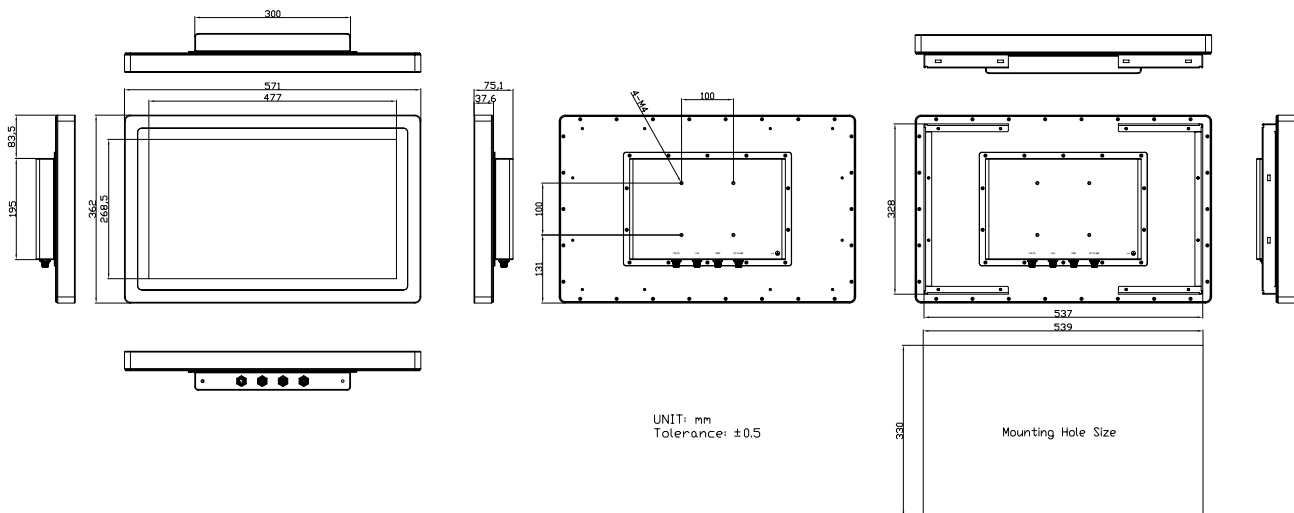
| Model NO.    | Description                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| AEX-115P-01  | 15" XGA industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316                 |
| AEX-115PH-01 | 15" XGA high brightness industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316 |
| AEX-116P-01  | 16" FHD industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316                 |

## AEX-119P(H)



unit:mm

## AEX-121P



unit:mm

## Ordering information

| Model NO.           | Description                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AEX-119P-01</b>  | 19" SXGA industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316                 |
| <b>AEX-119PH-01</b> | 19" SXGA high brightness industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316 |
| <b>AEX-121P-01</b>  | 21.5" FHD industrial display, Totally IP66, VGA input, External OSD Box, Projected Capacitive touch, DC 9~36V power input, SS316                |

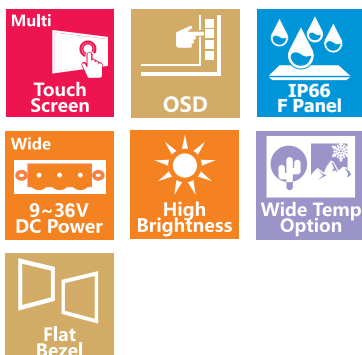


# HELIO-1XXA Series

New Generation Display

FPD Aluminum Die-Casting Display

- Aluminum Die-Casting Enclosure
- Optional Resistive Touch Window or Projected Capacitive Touch
- Front Bezel IP66 Rating
- Rear Side OSD
- Wide Range DC 9~36V Power Input



Easy to use OSD  
function key



Support Panel & VESA  
Mount



Flat Front Panel Design



Aluminum Die-Casting  
Chassis



Wide Range DC 9~36V  
Power Input







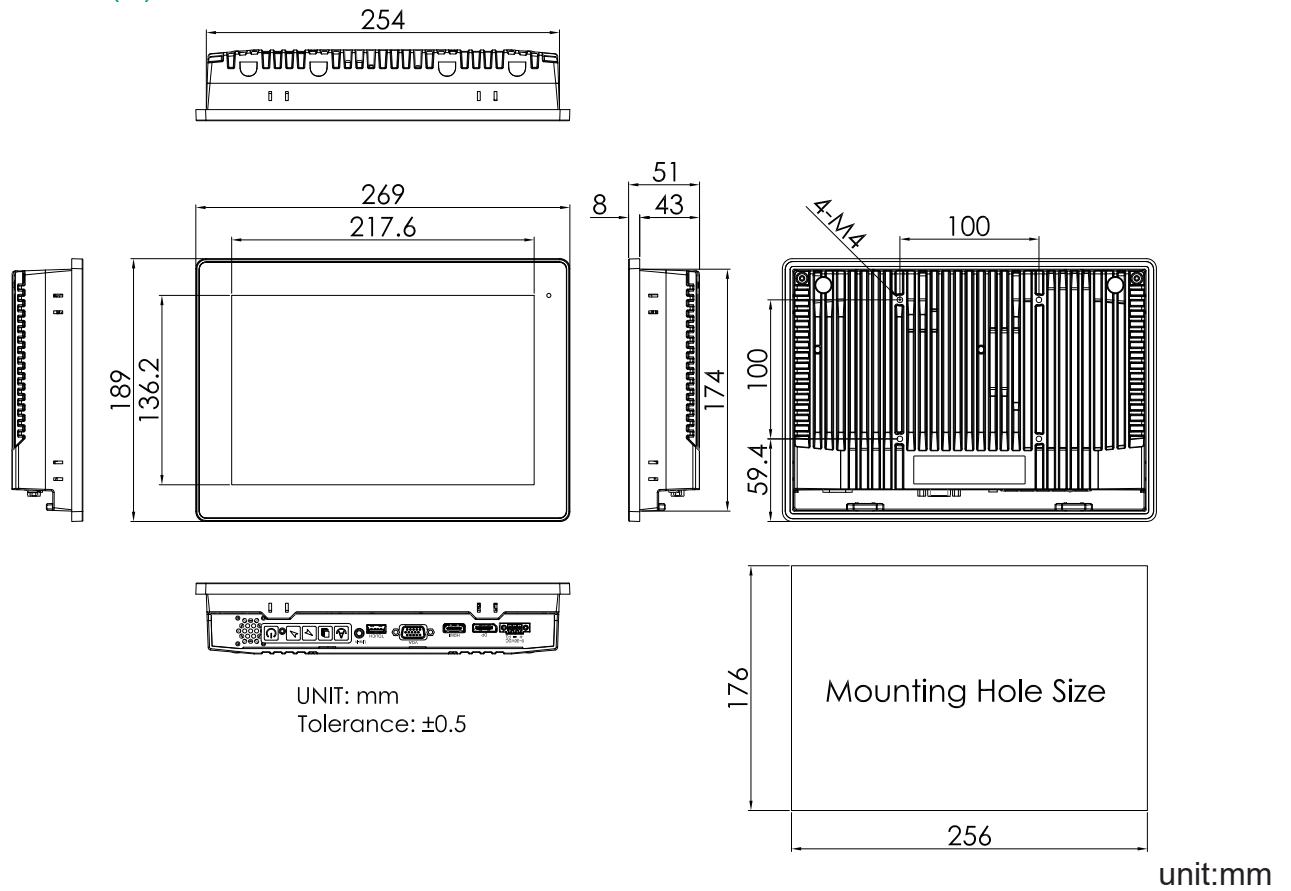
## Specifications

| Model Name                | HELIO-110APR(H)                                                       |         |           | HELIO-116APR(H)          |           |            |         | HELIO-121APR(H)           |  |
|---------------------------|-----------------------------------------------------------------------|---------|-----------|--------------------------|-----------|------------|---------|---------------------------|--|
| I/O Port                  |                                                                       |         |           |                          |           |            |         |                           |  |
| VGA                       | 1 x VGA                                                               |         |           |                          |           |            |         |                           |  |
| HDMI                      | 1 x HDMI                                                              |         |           |                          |           |            |         |                           |  |
| DP                        | 1 x DP                                                                |         |           |                          |           |            |         |                           |  |
| Audio                     | 1 x line-in                                                           |         |           |                          |           |            |         |                           |  |
| OSD Control Membrane      | 5 keys at Rear                                                        |         |           |                          |           |            |         |                           |  |
| Other                     | 1 x USB type A for touch<br>1 x RS-232 DB9 for touch (option)         |         |           |                          |           |            |         |                           |  |
| Power connector           | 1 x 3-pin terminal block connector                                    |         |           |                          |           |            |         |                           |  |
| Display                   |                                                                       |         |           |                          |           |            |         |                           |  |
| Display type              | 10.1" TFT-LCD                                                         |         |           | 15.6" TFT-LCD            |           |            |         | 21.5" TFT-LCD             |  |
| Max. resolution           | 1280 x 800                                                            |         |           | 1366 x 768               |           | 1920 x1080 |         | 1920 x 1080               |  |
| Max. color                | 16.7M                                                                 | 16.2M   | 16.7M     |                          |           |            | 16.7M   |                           |  |
| Luminance(cd/m²)          | 350                                                                   | 1000    | 400       | 1000                     | 450       | 1000       | 250     | 1000                      |  |
| View angle(H°/V°)         | 170/170                                                               | 170/170 | 170 / 160 | 160 / 160                | 170 / 170 | 170 / 170  | 178/178 | 178/178                   |  |
| Contrast                  | 800: 1                                                                | 1300: 1 | 500 : 1   | 500 : 1                  | 800 : 1   | 800 : 1    | 1000: 1 | 1000: 1                   |  |
| Backlight lifetime(hrs)   | 30000                                                                 | 50000   | 50000     | 50000                    | 50000     | 50000      | 50000   | 50000                     |  |
| Option                    | Optical Bonding                                                       |         |           |                          |           |            |         |                           |  |
| Touch Screen              |                                                                       |         |           |                          |           |            |         |                           |  |
| Type                      | Resistive Touch (For AR model)<br>Projected Capacitive (For AP model) |         |           |                          |           |            |         |                           |  |
| Interface                 | USB<br>RS-232 option for AR model                                     |         |           |                          |           |            |         |                           |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                   |         |           |                          |           |            |         |                           |  |
| Power                     |                                                                       |         |           |                          |           |            |         |                           |  |
| Power input               | DC 9~36V                                                              |         |           |                          |           |            |         |                           |  |
| Power Consumption (TYP.)  | HELIO-110AP: 5.28W (MAX)                                              |         |           | HELIO-116AP: 12.9W (MAX) |           |            |         | HELIO-121APH: 32.9W (MAX) |  |
| Mechanical                |                                                                       |         |           |                          |           |            |         |                           |  |
| Construction              | Aluminum Die-casting Chassis                                          |         |           |                          |           |            |         |                           |  |
| IP rating                 | IP66 compliant front bezel                                            |         |           |                          |           |            |         |                           |  |
| Mounting                  | Panel Mount, VESA Mount 100 x 100                                     |         |           |                          |           |            |         |                           |  |
| Dimension(mm)             | 269 x 189 x 50                                                        |         |           | 405 x 256 x 59           |           |            |         | 541 x 333 x 59            |  |
| Net weight(Kg)            | 1.6                                                                   |         |           | 3.5                      |           |            |         | 6.3                       |  |
| Environment               |                                                                       |         |           |                          |           |            |         |                           |  |
| Operating temperature(°C) | 0~50                                                                  |         |           |                          |           |            |         |                           |  |
| Storage temperature(°C)   | -30~70                                                                |         |           |                          |           |            |         |                           |  |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                     |         |           |                          |           |            |         |                           |  |
| Certification             | CE/FCC Class A                                                        |         |           |                          |           |            |         |                           |  |

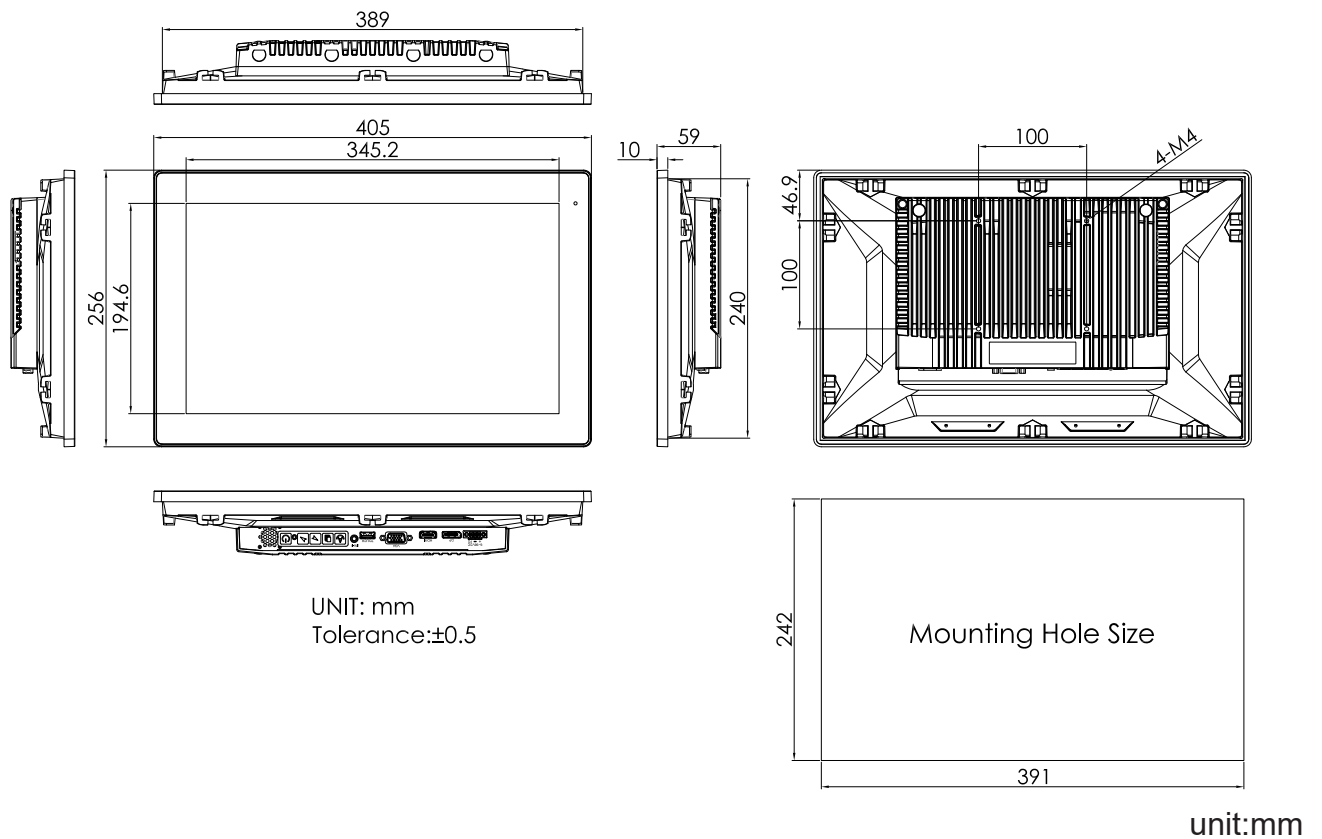
## HELIO-1XXA Series

FPD Aluminum Die-Casting Display

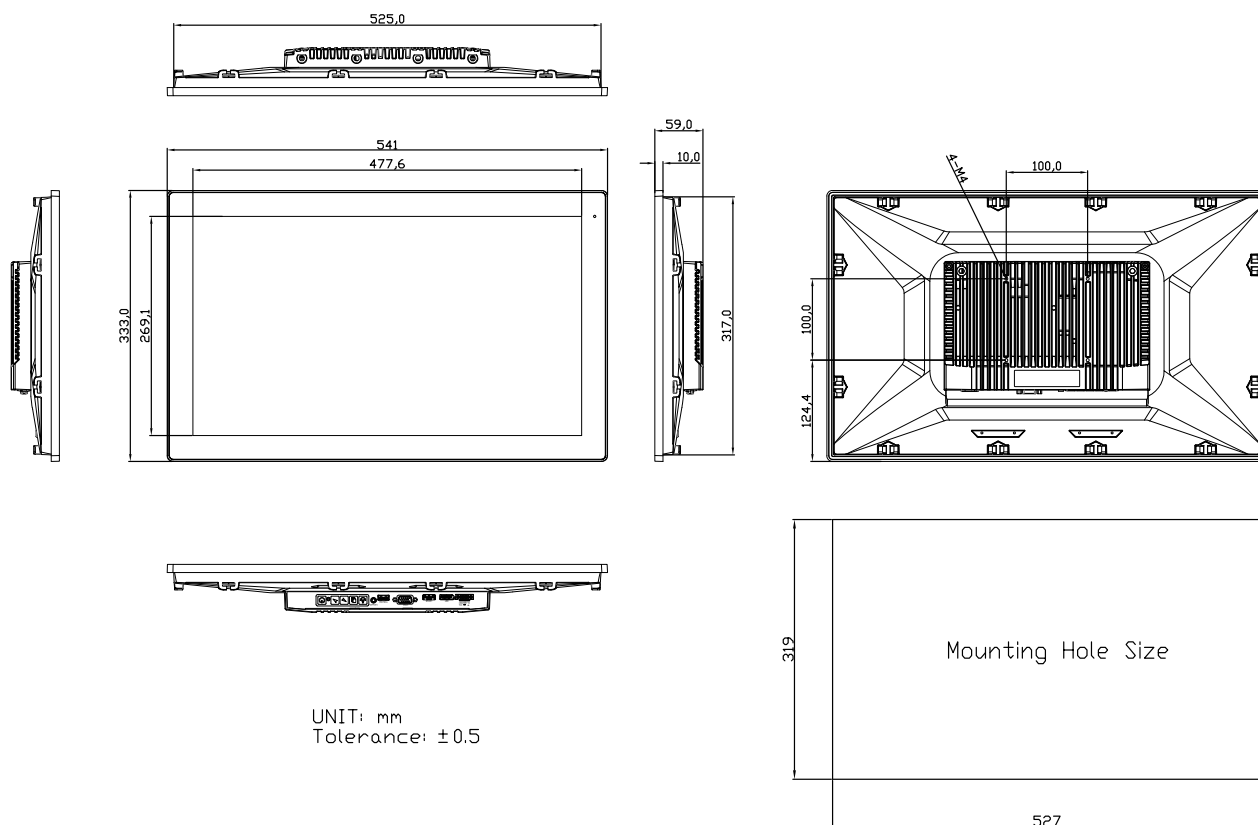
### HELIO-110AP/R(H)



### HELIO-116AP/R(H)



## HELIO-121AP/R(H)



unit:mm

## Ordering information

| Model NO.    | Description                                                                                                                                                                       |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HELIO-110AP  | 10.1" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis                  |
| HELIO-110AR  | 10.1" WXGA FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis               |
| HELIO-116AP  | 15.6" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis                  |
| HELIO-116AR  | 15.6" WXGA FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis               |
| HELIO-121AP  | 21.5" FHD FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum chassis                               |
| HELIO-121AR  | 21.5" FHD FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum chassis                            |
| HELIO-110APH | 10.1" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis,1000 nits LCD    |
| HELIO-110ARH | 10.1" WXGA FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis,1000 nits LCD |
| HELIO-116APH | 15.6" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis,1000 nits LCD    |
| HELIO-116ARH | 15.6" WXGA FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum die-casting chassis,1000 nits LCD |
| HELIO-121APH | 21.5" FHD FPD Industrial display, Projected Capacitive Touch(USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum chassis,1000 nits LCD                 |
| HELIO-121ARH | 21.5" FHD FPD Industrial display, Resistive touch window(RS-232/USB), VGA, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Aluminum chassis,1000 nits LCD              |

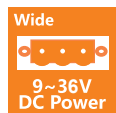


# ARCDIS-1XXAP/R/G(H) Series

New Generation Display

FPD Aluminum Die-Casting Display

- Aluminum Die-Casting Enclosure
- Optional Resistive Touch or Projected Capacitive Touch
- Front Bezel IP66 Rating
- Rear Side OSD
- Wide Range DC 9~36V Power Input



Easy to use OSD  
function key



Support Panel & VESA  
Mount



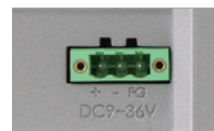
Flat Front Panel Design



Aluminum Die-Casting  
Chassis



Wide Range DC 9~36V  
Power Input



## Specifications



|                           |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
|---------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|-------------------------------------------------------|-----------------------------------|---------|
| Model Name                | ARCDIS-107AP(H)<br>ARCDIS-107AR(H)<br>ARCDIS-107AG(H) |                                                                                            | ARCDIS-108AP(H)<br>ARCDIS-108AR(H)<br>ARCDIS-108AG(H)         |                    | ARCDIS-110AP(H)<br>ARCDIS-110AR(H)<br>ARCDIS-110AG(H) |                                   |         |
| I/O Port                  |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| VGA                       |                                                       |                                                                                            | 1                                                             |                    |                                                       |                                   |         |
| DVI                       |                                                       |                                                                                            | 1 x DVI-D (share with DHMI)                                   |                    |                                                       |                                   |         |
| HDMI                      |                                                       |                                                                                            | 1 x HDMI (share with DVI-D)                                   |                    |                                                       |                                   |         |
| DP                        |                                                       |                                                                                            | 1                                                             |                    |                                                       |                                   |         |
| Audio                     |                                                       |                                                                                            | 1 x line-in                                                   |                    |                                                       |                                   |         |
| OSD Control Membrane      |                                                       |                                                                                            | 5 keys at Rear                                                |                    |                                                       |                                   |         |
| Other                     |                                                       |                                                                                            | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option) |                    |                                                       |                                   |         |
| Power connector           |                                                       |                                                                                            | 1 x 3 pins Terminal Block Connector                           |                    |                                                       |                                   |         |
| Display                   |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| Display type              |                                                       | 7" TFT-LCD                                                                                 |                                                               | 8" TFT-LCD         |                                                       | 10.1" TFT-LCD                     |         |
| Max. resolution           |                                                       | 800 x 480                                                                                  |                                                               | 800 x 600          |                                                       | 1280 x 800                        |         |
| Max. color                |                                                       | 262K                                                                                       | 262K                                                          | 16.2M              | 16.2M                                                 | 16.7M                             | 16.2M   |
| Luminance(cd/m²)          |                                                       | 350                                                                                        | 1000                                                          | 450                | 1000                                                  | 350                               | 1000    |
| View angle(H°/V°)         |                                                       | 160/160                                                                                    | 160/160                                                       | 140/120            | 140/120                                               | 170/170                           | 170/170 |
| Contrast                  |                                                       | 1000: 1                                                                                    | 1000: 1                                                       | 500: 1             | 1000: 1                                               | 800: 1                            | 1300: 1 |
| Backlight lifetime(hrs)   |                                                       | 30000                                                                                      | 30000                                                         | 40000              | 20000                                                 | 30000                             | 50000   |
| Option                    |                                                       | Optical Bonding                                                                            |                                                               |                    |                                                       |                                   |         |
| Touch Screen              |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| Type                      |                                                       | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)<br>Glass(For AG model) |                                                               |                    |                                                       |                                   |         |
| Interface                 |                                                       | USB<br>RS-232 option for AR model                                                          |                                                               |                    |                                                       |                                   |         |
| Light transmission(%)     |                                                       | Resistive Touch : 80%<br>Projected Capacitive : 90%                                        |                                                               |                    |                                                       |                                   |         |
| Power                     |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| Power input               |                                                       | DC 9~36V                                                                                   |                                                               |                    |                                                       |                                   |         |
| Power Consumption (TYP.)  |                                                       | ARCDIS-107AP: 4W                                                                           |                                                               | ARCDIS-108AP: 6W   |                                                       | ARCDIS-110AP: 5.1W                |         |
| Mechanical                |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| Construction              |                                                       | Aluminum Die-casting Chassis                                                               |                                                               |                    |                                                       |                                   |         |
| IP rating                 |                                                       | IP66 compliant front bezel                                                                 |                                                               |                    |                                                       |                                   |         |
| Mounting                  |                                                       | Panel Mount, VESA Mount 75 x 75                                                            |                                                               |                    |                                                       | Panel Mount, VESA Mount 100 x 100 |         |
| Dimension(mm)             |                                                       | 202 x 149 x 40                                                                             |                                                               | 231.1 x 176.1 x 50 |                                                       | 285 x 189 x 48.9                  |         |
| Net weight(Kg)            |                                                       | 1.06                                                                                       |                                                               | 1.8                |                                                       | 1.9                               |         |
| Environment               |                                                       |                                                                                            |                                                               |                    |                                                       |                                   |         |
| Operating temperature(°C) |                                                       | 0~50 / -20~60 (option)                                                                     |                                                               |                    |                                                       |                                   |         |
| Storage temperature(°C)   |                                                       | -30~70                                                                                     |                                                               |                    |                                                       |                                   |         |
| Humidity                  |                                                       | 10 to 90% @ 40°C, non- condensing                                                          |                                                               |                    |                                                       |                                   |         |
| Certification             |                                                       | CE/FCC Class A                                                                             |                                                               |                    |                                                       |                                   |         |

# ARCDIS-1XXAP/R/G(H) Series

FPD Aluminum Die-Casting Display



## Specifications

|                           |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
|---------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|----------|-----------|---------------------------------------------------------------|------------|-------------------------------------------------------|------------|-------------------------------------------------------|-------------|----------|
| Model Name                | ARCDIS-112AP(H)<br>ARCDIS-112AR(H)<br>ARCDIS-112AG(H) |                                                                                            |          |           | ARCDIS-115AP(H)<br>ARCDIS-115AR(H)<br>ARCDIS-115AG(H)         |            | ARCDIS-116AP(H)<br>ARCDIS-116AR(H)<br>ARCDIS-116AG(H) |            | ARCDIS-117AP(H)<br>ARCDIS-117AR(H)<br>ARCDIS-117AG(H) |             |          |
| I/O Port                  |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| VGA                       |                                                       |                                                                                            |          |           | 1 x VGA                                                       |            |                                                       |            |                                                       |             |          |
| DVI                       |                                                       | 1 x DVI-D (share with HDMI)                                                                |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| HDMI                      |                                                       |                                                                                            |          |           | 1 x HDMI (share with DVI-D)                                   |            |                                                       |            |                                                       |             |          |
| DP                        |                                                       | 1                                                                                          |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Audio                     |                                                       |                                                                                            |          |           | 1 x line-in                                                   |            |                                                       |            |                                                       |             |          |
| OSD Control Membrane      |                                                       | 5 keys at Rear                                                                             |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Other                     |                                                       |                                                                                            |          |           | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option) |            |                                                       |            |                                                       |             |          |
| Power connector           |                                                       | 1 x 3-pin terminal block connector                                                         |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Display                   |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Display type              |                                                       | 12.1" TFT-LCD                                                                              |          |           | 15" TFT-LCD                                                   |            | 15.6" TFT-LCD                                         |            | 17" TFT-LCD                                           |             |          |
| Max. resolution           |                                                       | 800 x 600                                                                                  | 1024x768 | 800 x 600 | 1024x768                                                      | 1024 x 768 |                                                       | 1366 x 768 |                                                       | 1280 x 1024 |          |
| Max. color                |                                                       | 16.2M                                                                                      | 16.2M    | 16.2M     | 16.2M                                                         | 16.7M      | 16.7M                                                 | 16.7M      | 16.7M                                                 | 16.2M       | 16.7M    |
| Luminance(cd/m²)          |                                                       | 450                                                                                        | 500      | 1000      | 1000                                                          | 300        | 1000                                                  | 400        | 1000                                                  | 350         | 1000     |
| View angle(H°/V°)         |                                                       | 178/178                                                                                    | 178/178  | 178/178   | 178/178                                                       | 176/176    | 176/176                                               | 170/160    | 160/160                                               | 170/ 160    | 160/ 140 |
| Contrast                  |                                                       | 1500: 1                                                                                    | 1000: 1  | 700: 1    | 1000: 1                                                       | 2000: 1    | 3000: 1                                               | 500: 1     | 500: 1                                                | 1000: 1     | 800: 1   |
| Backlight lifetime(hrs)   |                                                       | 50000                                                                                      | 30000    | 50000     | 70000                                                         | 70000      | 70000                                                 | 50000      | 50000                                                 | 30000       | 50000    |
| Option                    |                                                       | Optical Bonding                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Touch Screen              |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Type                      |                                                       | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)<br>Glass(For AG model) |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Interface                 |                                                       |                                                                                            |          |           | USB<br>RS-232 option for AR model                             |            |                                                       |            |                                                       |             |          |
| Light transmission(%)     |                                                       | Resistive Touch : 80%<br>Projected Capacitive and Glass: 90%                               |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Power                     |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Power input               |                                                       |                                                                                            |          |           | DC 9~36V                                                      |            |                                                       |            |                                                       |             |          |
| Power Consumption (TYP.)  |                                                       | ARCDIS-112AP: 9W                                                                           |          |           | ARCDIS-115AP: 9W                                              |            | ARCDIS-116AP: 13W                                     |            | ARCDIS-117AP: 11W                                     |             |          |
| Mechanical                |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Construction              |                                                       |                                                                                            |          |           | Aluminum Die-casting Chassis                                  |            |                                                       |            |                                                       |             |          |
| IP rating                 |                                                       | IP66 compliant front bezel                                                                 |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Mounting                  |                                                       |                                                                                            |          |           | Panel Mount, VESA Mount 100 x 100                             |            |                                                       |            |                                                       |             |          |
| Dimension(mm)             |                                                       | 319 x 245 x 51.68                                                                          |          |           | 410 x 310 x 54.67                                             |            | 412 x 277.5 x 58.9                                    |            | 439 x 348 x 64.8                                      |             |          |
| Net weight(Kg)            |                                                       | 2.6                                                                                        |          |           | 4.3                                                           |            | 4.4                                                   |            | 6                                                     |             |          |
| Environment               |                                                       |                                                                                            |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Operating temperature(°C) |                                                       | 0~50 / -20~60 (option)                                                                     |          |           |                                                               |            | 0~50                                                  |            |                                                       |             |          |
| Storage temperature(°C)   |                                                       |                                                                                            |          |           | -30~70                                                        |            |                                                       |            |                                                       |             |          |
| Humidity                  |                                                       | 10 to 90% @ 40°C, non- condensing                                                          |          |           |                                                               |            |                                                       |            |                                                       |             |          |
| Certification             |                                                       |                                                                                            |          |           | CE/FCC Class A                                                |            |                                                       |            |                                                       |             |          |



# ARCDIS-1XXAP/G/R(H) Series

FPD Aluminum Die-Casting Display

## Specifications



| Model Name                | ARCDIS-118AP(H)<br>ARCDIS-118AR(H)<br>ARCDIS-118AG(H) |                                                                                            | ARCDIS-119AP(H)<br>ARCDIS-119AR(H)<br>ARCDIS-119AG(H)         |                   | ARCDIS-121AP(H)<br>ARCDIS-121AR(H)<br>ARCDIS-121AG(H) |                          | ARCDIS-124AP(H)<br>ARCDIS-124AG(H) |                                                           |           |
|---------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------|-------------------------------------------------------|--------------------------|------------------------------------|-----------------------------------------------------------|-----------|
| I/O Port                  |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| VGA                       |                                                       |                                                                                            | 1 x VGA                                                       |                   |                                                       |                          |                                    |                                                           |           |
| DVI                       |                                                       |                                                                                            | 1 x DVI-D (share with HDMI)                                   |                   |                                                       |                          |                                    |                                                           |           |
| HDMI                      |                                                       |                                                                                            | 1 x HDMI (share with DVI-D)                                   |                   |                                                       |                          |                                    |                                                           |           |
| DP                        |                                                       |                                                                                            | 1                                                             |                   |                                                       |                          |                                    |                                                           |           |
| Audio                     |                                                       |                                                                                            | 1 x line-in                                                   |                   |                                                       |                          |                                    |                                                           |           |
| OSD Control Membrane      |                                                       |                                                                                            | 5 keys at Rear                                                |                   |                                                       |                          |                                    |                                                           |           |
| Other                     |                                                       |                                                                                            | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option) |                   |                                                       | 1 x USB type B for touch |                                    |                                                           |           |
| Power connector           |                                                       |                                                                                            | 1 x 3 pins Terminal Block Connector                           |                   |                                                       |                          |                                    |                                                           |           |
| Display                   |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Display type              |                                                       | 18.5" TFT-LCD                                                                              |                                                               | 19" TFT-LCD       |                                                       | 21.5" TFT-LCD            |                                    | 23.8" TFT-LCD                                             |           |
| Max. resolution           |                                                       | 1366 x 768                                                                                 |                                                               | 1280 x 1024       |                                                       | 1920 x 1080              |                                    | 1920 x 1080                                               |           |
| Max. color                |                                                       | 16.7M                                                                                      | 16.7M                                                         | 16.7M             | 16.7M                                                 | 16.7M                    | 16.7M                              | 16.7M                                                     | 16.7M     |
| Luminance(cd/m²)          |                                                       | 300                                                                                        | 1000                                                          | 350               | 1000                                                  | 250                      | 1000                               | 250                                                       | 1000      |
| View angle(H°/V°)         |                                                       | 170 / 160                                                                                  | 170 / 160                                                     | 170 / 160         | 170 / 160                                             | 178 / 178                | 178 / 178                          | 178 / 178                                                 | 178 / 178 |
| Contrast                  |                                                       | 1000: 1                                                                                    | 1000: 1                                                       | 1000: 1           | 1000: 1                                               | 1000: 1                  | 1000: 1                            | 3000: 1                                                   | 5000: 1   |
| Backlight lifetime(hrs)   |                                                       | 50000                                                                                      | 50000                                                         | 50000             | 50000                                                 | 50000                    | 50000                              | 30000                                                     | 50000     |
| Option                    |                                                       | Optical Bonding                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Touch Screen              |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Type                      |                                                       | Resistive Touch(For AR model)<br>Projected Capacitive(For AP model)<br>Glass(For AG model) |                                                               |                   |                                                       |                          |                                    | Projected Capacitive(For AP model)<br>Glass(For AG model) |           |
| Interface                 |                                                       | USB<br>RS-232 option for AR model                                                          |                                                               |                   |                                                       |                          |                                    | USB                                                       |           |
| Light transmission(%)     |                                                       | Resistive touch window : 80%<br>Projected Capacitive Touch and Glass: 90%                  |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Power                     |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Power input               |                                                       | DC 9~36V                                                                                   |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Power Consumption (TYP.)  |                                                       | ARCDIS-118AP: 19W                                                                          |                                                               | ARCDIS-119AP: 17W |                                                       | ARCDIS-121AP: 18W        |                                    | ARCDIS-124AP: 21W                                         |           |
| Mechanical                |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Construction              |                                                       | Aluminum Die-casting Chassis                                                               |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| IP rating                 |                                                       | IP66 compliant front bezel / IP69K (option)                                                |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Mounting                  |                                                       | Panel Mount, VESA Mount 100 x 100                                                          |                                                               |                   |                                                       |                          |                                    | Panel Mount, VESA Mount 200 x 100                         |           |
| Dimension(mm)             |                                                       | 499.6 x 314.6 x 59.9                                                                       |                                                               | 468 x 380 x 64.8  |                                                       | 557 x 362 x 64.8         |                                    | 640 x 395 x 44                                            |           |
| Net weight(Kg)            |                                                       | 6.4                                                                                        |                                                               | 7.2               |                                                       | 7.5                      |                                    | 9.5                                                       |           |
| Environment               |                                                       |                                                                                            |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Operating temperature(°C) |                                                       | 0~50                                                                                       |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Storage temperature(°C)   |                                                       | -30~70                                                                                     |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Humidity                  |                                                       | 10 to 90% @ 40°C, non- condensing                                                          |                                                               |                   |                                                       |                          |                                    |                                                           |           |
| Certification             |                                                       | CE/FCC Class A                                                                             |                                                               |                   |                                                       |                          |                                    |                                                           |           |

Stainless Steel Panel PC

Industrial Panel PC

HMI

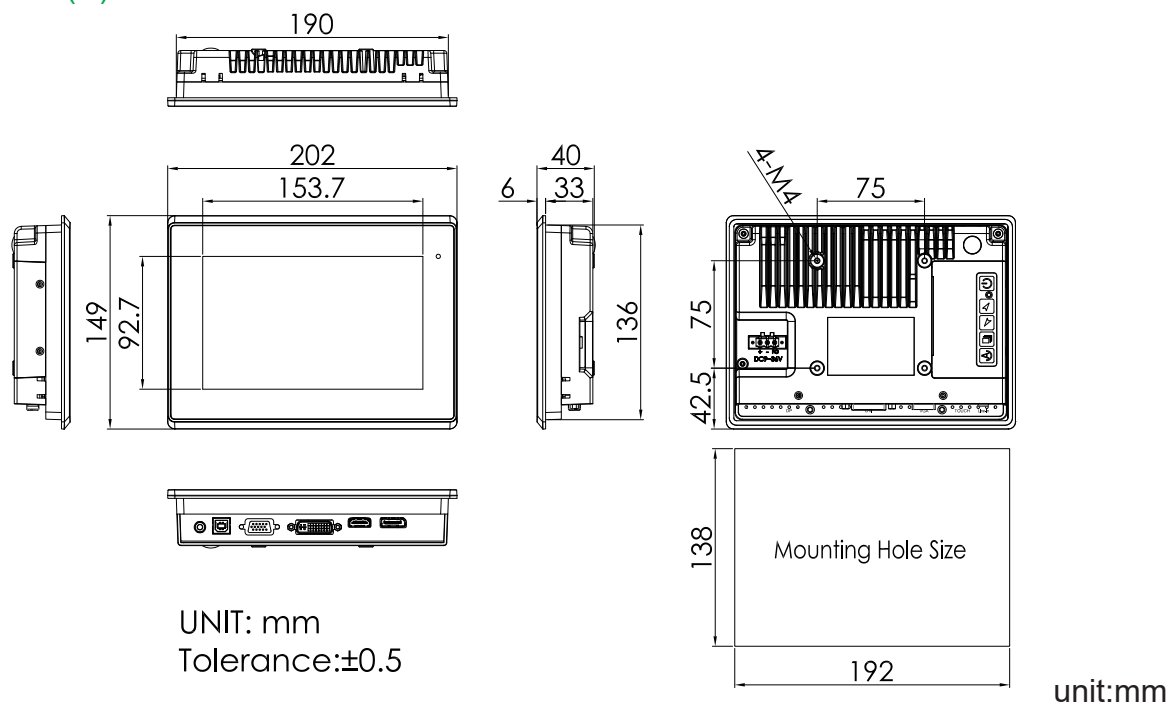
Embedded Box PC

Display

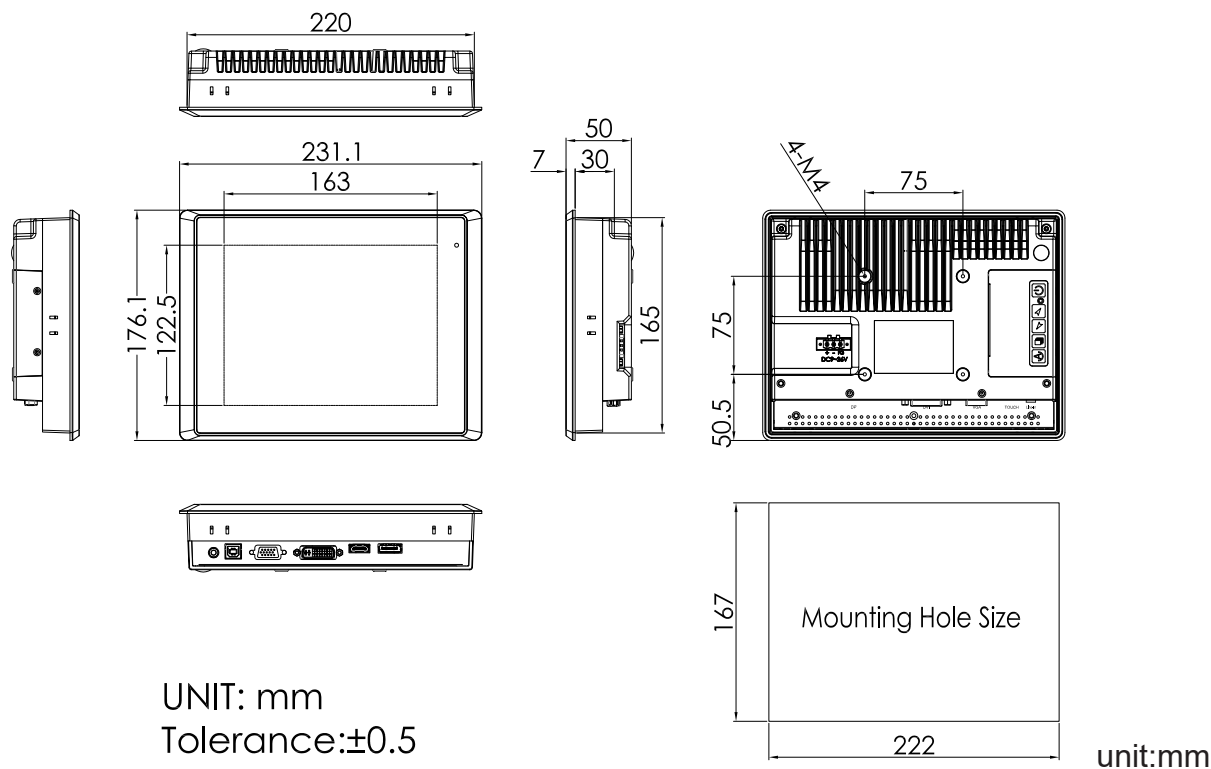
# ARCDIS-1XXAP/R/G(H) Series

FPD Aluminum Die-Casting Display

## ARCDIS-107AP/R/G(H)



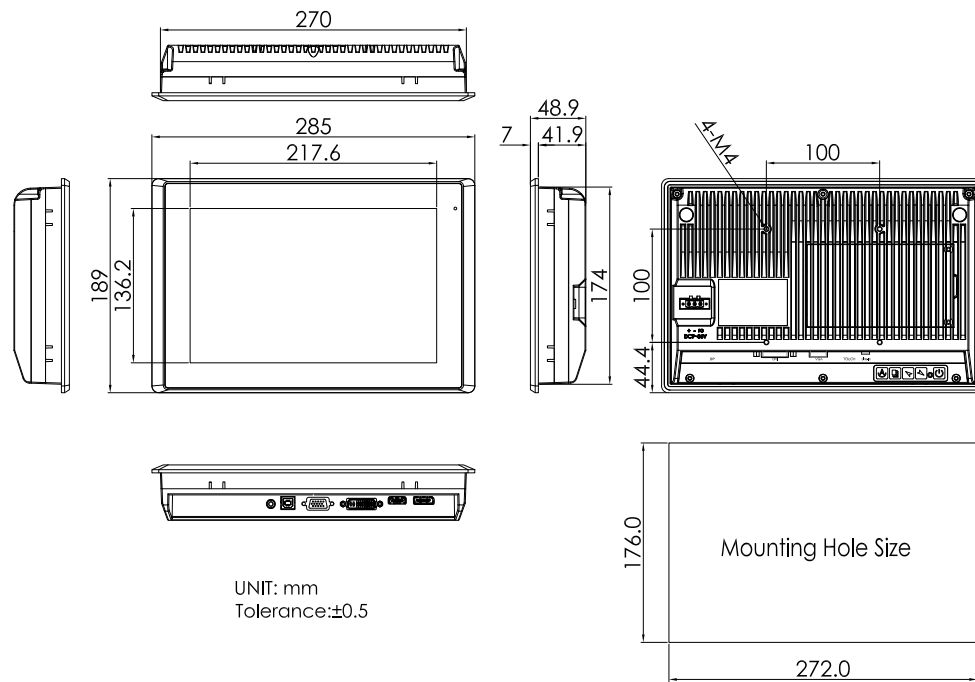
## ARCDIS-108A P/R/G(H)



## Ordering information

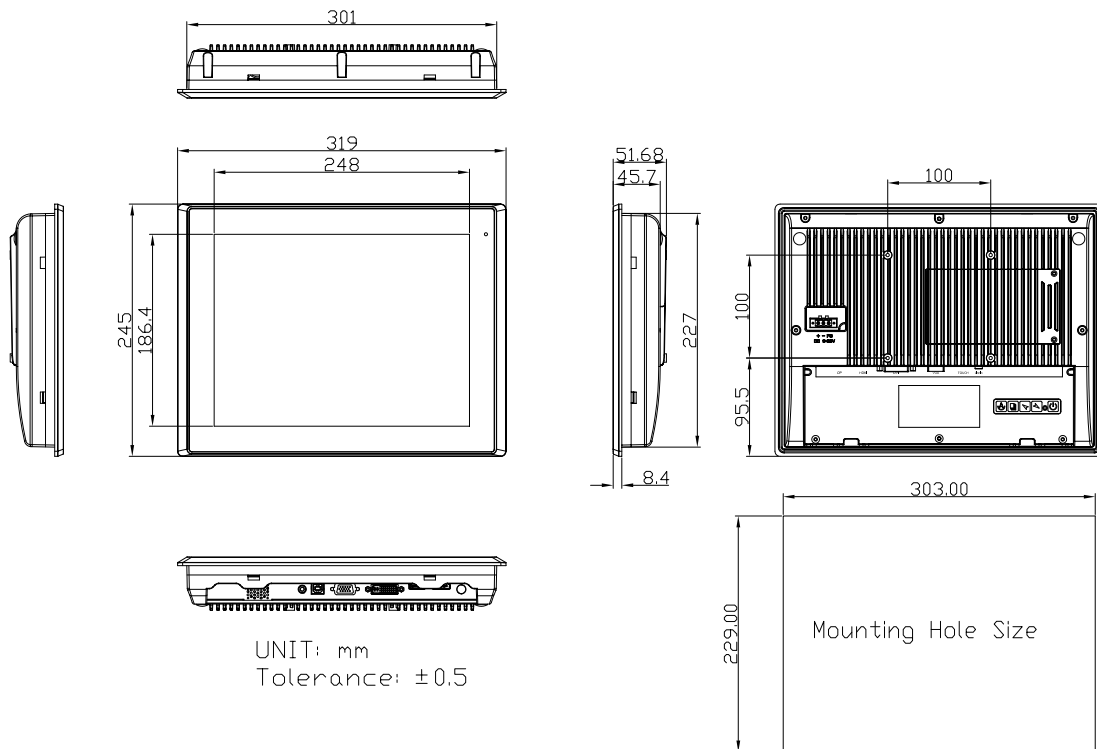
| Model NO.              | Description                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCDIS-107AR-01</b> | 7" FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis            |
| <b>ARCDIS-107AP-01</b> | 7" FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |
| <b>ARCDIS-108AR-01</b> | 8" FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis            |
| <b>ARCDIS-108AP-01</b> | 8" FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |

## ARCDIS-110AP/R/G(H)



unit:mm

## ARCDIS-112AP/R/G(H)



unit:mm

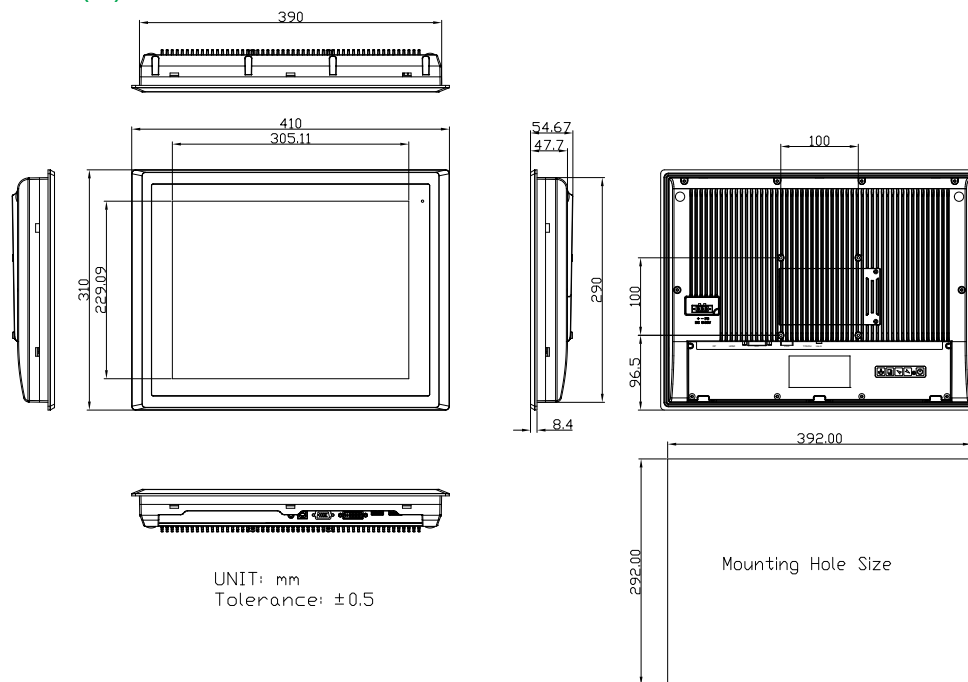
## Ordering information

| Model NO.              | Description                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCDIS-110AR-01</b> | 10.1" FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis            |
| <b>ARCDIS-110AP-01</b> | 10.1" FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |

# ARCDIS-1XXAP/G/R(H) Series

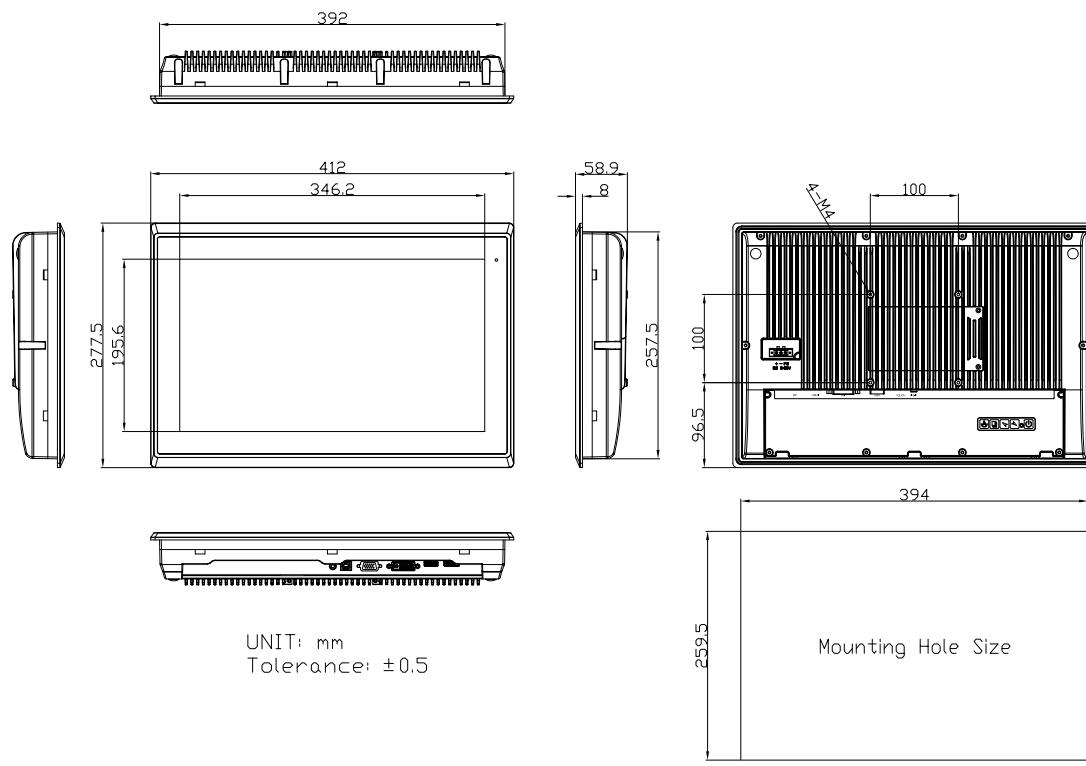
FPD Aluminum Die-Casting Display

## ARCDIS-115AP/R/G(H)



unit:mm

## ARCDIS-116AP/R/G(H)

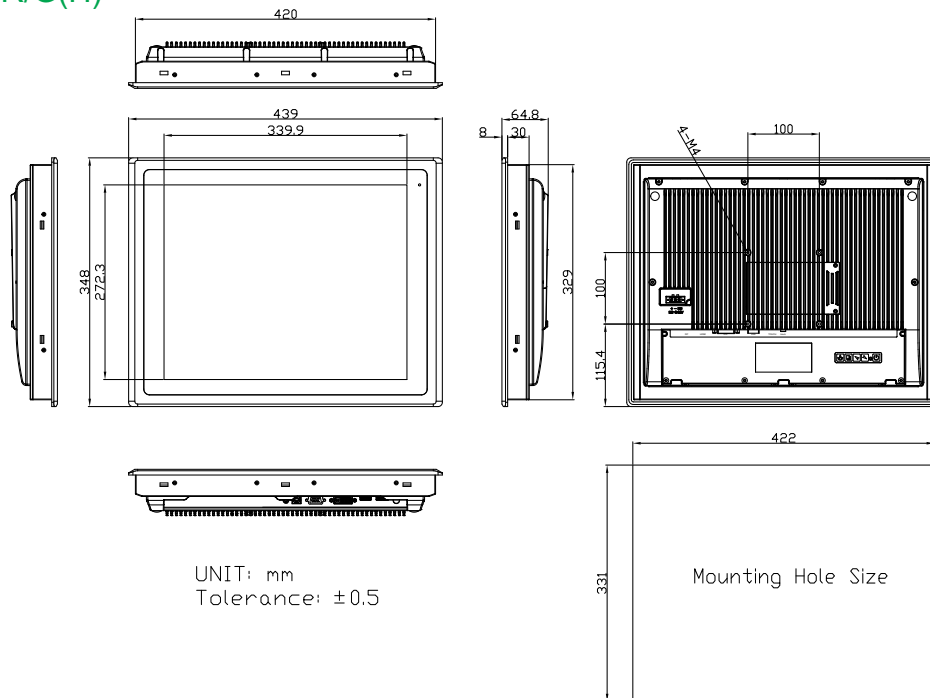


unit:mm

## Ordering information

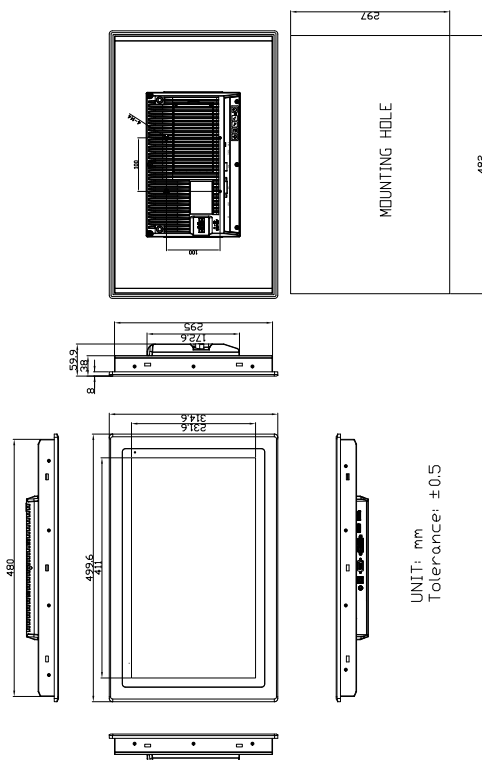
| Model NO.              | Description                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCDIS-112AR-01</b> | 12.1" SVGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis            |
| <b>ARCDIS-112AP-01</b> | 12.1" SVGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |
| <b>ARCDIS-115AR-01</b> | 15" XGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis               |
| <b>ARCDIS-115AP-01</b> | 15" XGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis    |

## ARCDIS-117AP/R/G(H)

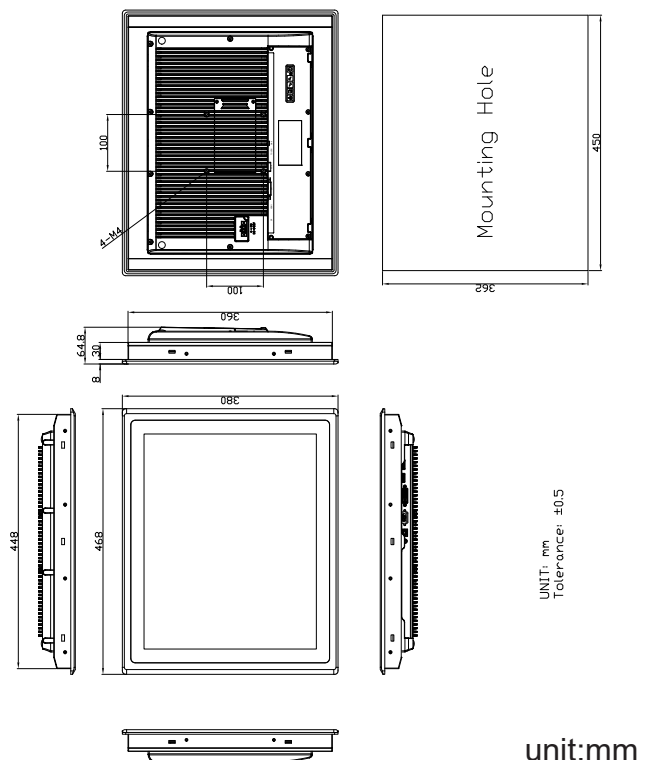


unit:mm

## ARCDIS-118A P/R/G(H)



## ARCDIS-119A P/R/G(H)



unit:mm

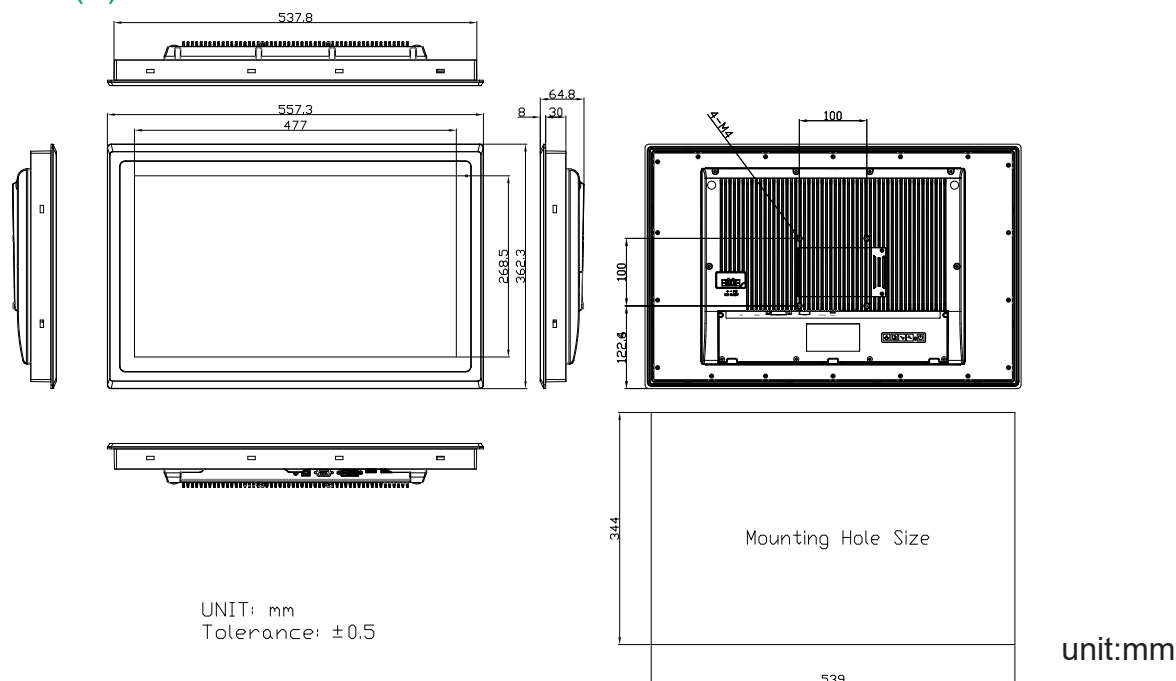
## Ordering information

| Model NO.       | Description                                                                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ARCDIS-116AR-01 | 15.6" WXGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis            |
| ARCDIS-116AP-01 | 15.6" WXGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |
| ARCDIS-117AR-01 | 17" SXGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis                          |
| ARCDIS-117AP-01 | 17" SXGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis               |

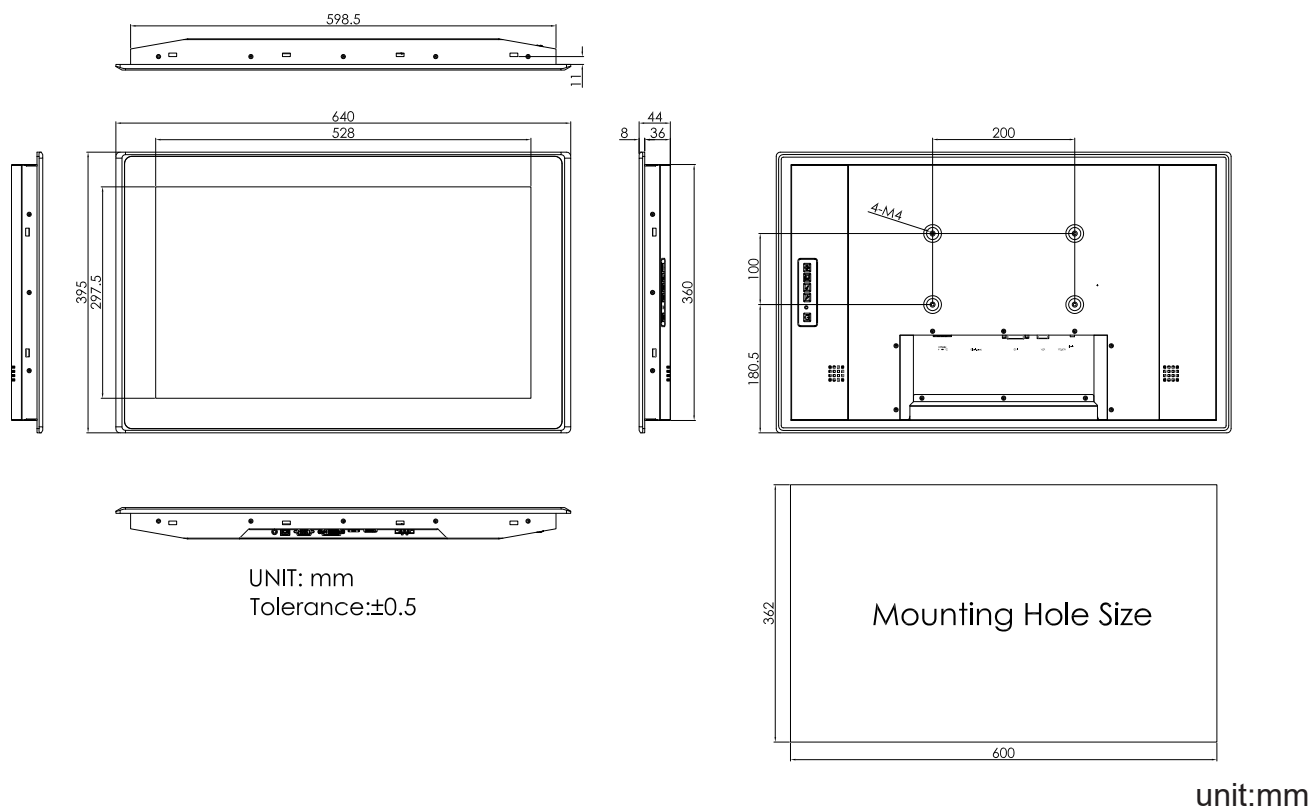
# ARCDIS-1XXAP/R/G(H) Series

FPD Aluminum Die-Casting Display

## ARCDIS-121AP/R/G(H)



## ARCDIS-124A P/G(H)



## Ordering information

| Model NO.              | Description                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ARCDIS-118AR-01</b> | 18.5" WXGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis                     |
| <b>ARCDIS-118AP-01</b> | 18.5" WXGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis          |
| <b>ARCDIS-119AR-01</b> | 19" SXGA FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis                       |
| <b>ARCDIS-119AP-01</b> | 19" SXGA FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis            |
| <b>ARCDIS-121AR-01</b> | 21.5" FHD FPD Industrial display, Resistive touch window, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis                      |
| <b>ARCDIS-121AP-01</b> | 21.5" FHD FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Chassis           |
| <b>ARCDIS-124AP-01</b> | 24" FHD FPD Industrial display, Projected Capacitive touch screen, VGA, DVI, HDMI, and DP input, 5 keys Rear OSD, DC 9~36V power input with adapter, Aluminum Die-casting Chassis |



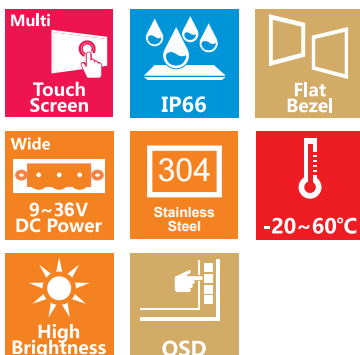


# FABS-1XXP(H) Series

Food Safety Grade and Hygienic Design Display

Stainless Steel Front Bezel Display

- Stainless Steel Flat Front Bezel Display
- Projected Capacitive Touch or Protected Glass (Option)
- Wide Range DC 9~36V Power Input
- IP66 Compliant Front Panel / IP69K for option
- VGA, DP, DVI/HDMI Input
- OSD on the rear side



Stainless Steel Flat Front Bezel Display



Wide Range DC 9~36V Power Input



OSD on the rear side



VGA, DP, DVI/HDMI Input



IP66/IP69K Compliant Front Panel



# FABS-1XXP(H) Series

Food Safety Grade and Hygienic Design Display



## Specifications

| Model Name                | FABS-107PRG(H)                                                                          |         |                                                                            | FABS-110PRG(H)              |                                   |           | FABS-112PRG(H) |           |            |
|---------------------------|-----------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------|-----------------------------|-----------------------------------|-----------|----------------|-----------|------------|
| I/O Port                  |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| VGA                       |                                                                                         |         | 1 x VGA                                                                    |                             |                                   |           |                |           |            |
| DVI                       |                                                                                         |         |                                                                            | 1 x DVI-D (share with HDMI) |                                   |           |                |           |            |
| HDMI                      |                                                                                         |         | 1 x HDMI (share with DVI-D)                                                |                             |                                   |           |                |           |            |
| DP                        |                                                                                         |         |                                                                            | 1 x DP                      |                                   |           |                |           |            |
| Audio                     |                                                                                         |         | 1 x line-in                                                                |                             |                                   |           |                |           |            |
| OSD Control Membrane      |                                                                                         |         | 5 keys at Rear                                                             |                             |                                   |           |                |           |            |
| Other                     |                                                                                         |         | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option)              |                             |                                   |           |                |           |            |
| Power connector           |                                                                                         |         | 1 x 3 pins Terminal Block Connector                                        |                             |                                   |           |                |           |            |
| Display                   |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Display type              |                                                                                         |         | 7" TFT-LCD                                                                 |                             | 10.1" TFT-LCD                     |           | 12.1" TFT-LCD  |           |            |
| Max. resolution           | 800 x 480                                                                               |         | 1280 x 800                                                                 |                             |                                   | 800 x 600 | 1024 x 768     | 800 x 600 | 1024 x 768 |
| Max. color                | 262K                                                                                    | 262K    | 16.7M                                                                      | 16.2M                       | 16.2M                             | 16.2M     | 16.2M          | 16.2M     | 16.2M      |
| Luminance(cd/m²)          | 350                                                                                     | 1000    | 350                                                                        | 1000                        | 450                               | 500       | 1000           | 1000      |            |
| View angle(H°/V°)         | 160/160                                                                                 | 160/160 | 170/170                                                                    | 170/170                     | 178/178                           | 178/178   | 178/178        | 178/178   |            |
| Contrast                  | 1000:1                                                                                  | 1000:1  | 800:1                                                                      | 1300:1                      | 1500:1                            | 1000:1    | 700:1          | 1000:1    |            |
| Backlight lifetime(hrs)   | 30000                                                                                   | 30000   | 30000                                                                      | 50000                       | 50000                             | 30000     | 50000          | 70000     |            |
| Option                    | Optical Bonding                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Touch Screen              |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |         |                                                                            |                             |                                   |           |                |           |            |
| Interface                 |                                                                                         |         | USB<br>RS-232 option for R model                                           |                             |                                   |           |                |           |            |
| Light transmission(%)     |                                                                                         |         | Resistive Touch : 80%<br>Projected Capacitive : 90%                        |                             |                                   |           |                |           |            |
| Power                     |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Power input               |                                                                                         |         | DC 9~36V                                                                   |                             |                                   |           |                |           |            |
| Power Consumption (TYP.)  |                                                                                         |         | FABS-107P: 3.7W                                                            |                             | FABS-110P: 6W                     |           | FABS-112P: 12W |           |            |
| Mechanical                |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Construction              |                                                                                         |         | 304 Stainless steel front bezel (Default) /316(option)<br>Aluminum Chassis |                             |                                   |           |                |           |            |
| IP rating                 |                                                                                         |         | IP66 compliant front panel / IP69K(option)                                 |                             |                                   |           |                |           |            |
| Mounting                  |                                                                                         |         | Panel Mount, VESA Mount 75 x 75                                            |                             | Panel Mount, VESA Mount 100 x 100 |           |                |           |            |
| Dimension(mm)             |                                                                                         |         | 217 x 163 x 40                                                             |                             | 296 x 200 x 46.9                  |           | 331 x 257 x 52 |           |            |
| Net weight(Kg)            |                                                                                         |         | 1.4                                                                        |                             | 2.4                               |           | 3.3            |           |            |
| Environment               |                                                                                         |         |                                                                            |                             |                                   |           |                |           |            |
| Operating temperature(°C) |                                                                                         |         | 0~50 / -20~60 (option)                                                     |                             |                                   |           |                |           |            |
| Storage temperature(°C)   |                                                                                         |         | -30~70                                                                     |                             |                                   |           |                |           |            |
| Humidity                  |                                                                                         |         | 10 to 90% @ 40°C, non- condensing                                          |                             |                                   |           |                |           |            |
| Certification             |                                                                                         |         | CE/FCC Class A<br>EN 1672-2 compliant for P/G model                        |                             |                                   |           |                |           |            |



## Specifications

| Model Name                | FABS-115PRG(H)                                                                          |          |                     | FABS-116PRG(H) |                      | FABS-117PRG(H) |  |
|---------------------------|-----------------------------------------------------------------------------------------|----------|---------------------|----------------|----------------------|----------------|--|
| I/O Port                  |                                                                                         |          |                     |                |                      |                |  |
| VGA                       | 1 x VGA                                                                                 |          |                     |                |                      |                |  |
| DVI                       | 1 x DVI-D (share with HDMI)                                                             |          |                     |                |                      |                |  |
| HDMI                      | 1 x HDMI (share with DVI-D)                                                             |          |                     |                |                      |                |  |
| DP                        | 1 x DP                                                                                  |          |                     |                |                      |                |  |
| Audio                     | 1 x line-in                                                                             |          |                     |                |                      |                |  |
| OSD Control Membrane      | 5 keys at Rear                                                                          |          |                     |                |                      |                |  |
| Other                     | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option)                           |          |                     |                |                      |                |  |
| Power connector           | 1 x 3 pins Terminal Block Connector                                                     |          |                     |                |                      |                |  |
| Display                   |                                                                                         |          |                     |                |                      |                |  |
| Display type              | 15" TFT-LCD                                                                             |          | 15.6" TFT-LCD       |                | 17" TFT-LCD          |                |  |
| Max. resolution           | 1024 x 768                                                                              |          | 1366 x 768          |                | 1280 x 1024          |                |  |
| Max. color                | 16.2M/262K                                                                              |          | 16.7M               |                | 16.2M                | 16.7M          |  |
| Luminance(cd/m²)          | 300                                                                                     | 1000     | 400                 | 1000           | 350                  | 1000           |  |
| View angle(H°/V°)         | 176 / 176                                                                               | 176/ 176 | 170 / 160           | 160 / 160      | 170 / 160            | 160 / 140      |  |
| Contrast                  | 2000:1                                                                                  | 3000:1   | 500:1               | 500:1          | 1000:1               | 800:1          |  |
| Backlight lifetime(hrs)   | 50000                                                                                   | 70000    | 50000               | 350            | 30000                | 50000          |  |
| Option                    | Optical Bonding                                                                         |          |                     |                |                      |                |  |
| Touch Screen              |                                                                                         |          |                     |                |                      |                |  |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |          |                     |                |                      |                |  |
| Interface                 | USB<br>RS-232 option for R model                                                        |          |                     |                |                      |                |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive : 90%                                     |          |                     |                |                      |                |  |
| Power                     |                                                                                         |          |                     |                |                      |                |  |
| Power input               | DC 9~36V                                                                                |          |                     |                |                      |                |  |
| Power Consumption (TYP.)  | FABS-115P:10W(MAX)                                                                      |          | FABS-116P:13W(MAX)  |                | FABS-117PH:29W(MAX)  |                |  |
| Mechanical                |                                                                                         |          |                     |                |                      |                |  |
| Construction              | 304 Stainless steel front bezel (Default) /316(option)<br>Aluminum Chassis              |          |                     |                |                      |                |  |
| IP rating                 | IP66 compliant front panel / IP69K(option)                                              |          |                     |                |                      |                |  |
| Mounting                  | Panel Mount, VESA Mount 100 x 100                                                       |          |                     |                |                      |                |  |
| Dimension(mm)             | 422 x 322 x 54.1                                                                        |          | 424 x 289.5 x 58.15 |                | 449.4 x 358.4 x 63.8 |                |  |
| Net weight(Kg)            | 4.9                                                                                     |          | 5.25                |                | 6.4                  |                |  |
| Environment               |                                                                                         |          |                     |                |                      |                |  |
| Operating temperature(°C) | 0~50 / -20~60 (option)                                                                  |          | 0~50                |                |                      |                |  |
| Storage temperature(°C)   | -30~70                                                                                  |          |                     |                |                      |                |  |
| Humidity                  | 10 to 95% @ 40°C, non- condensing                                                       |          |                     |                |                      |                |  |
| Certification             | CE/FCC Class A<br>EN 1672-2 compliant for P/G model                                     |          |                     |                |                      |                |  |

# FABS-1XXP(H) Series

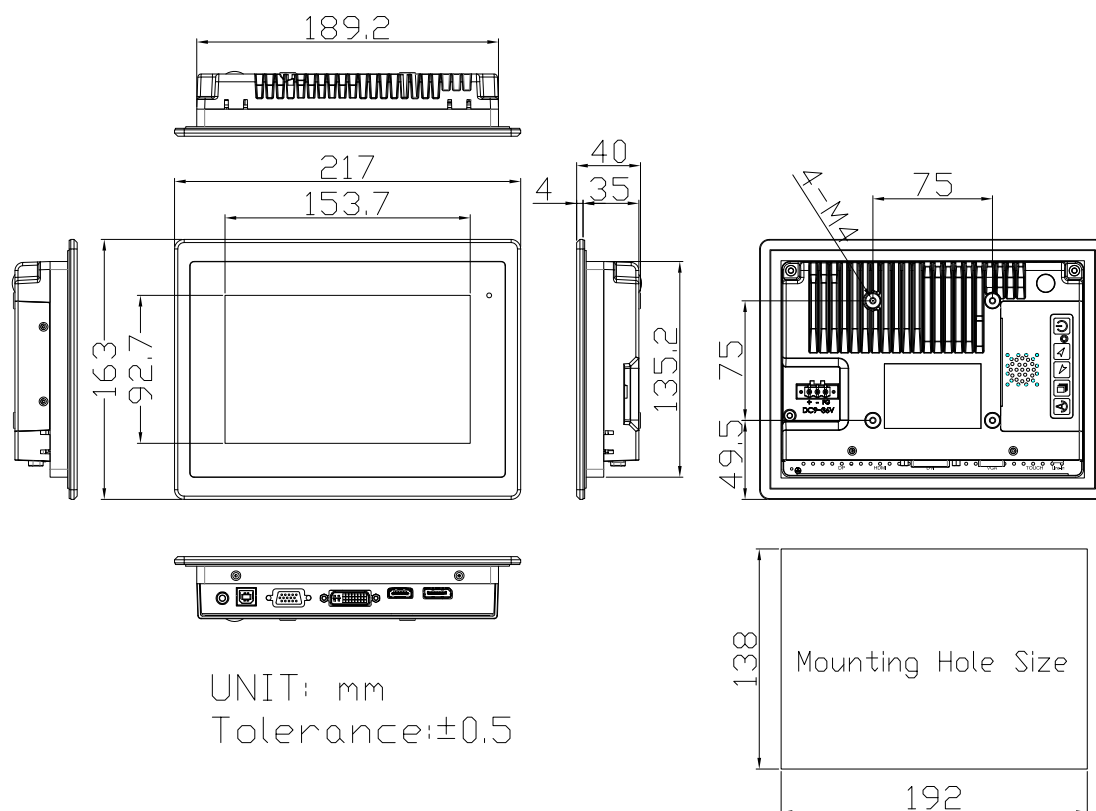
Food Safety Grade and Hygienic Design Display



## Specifications

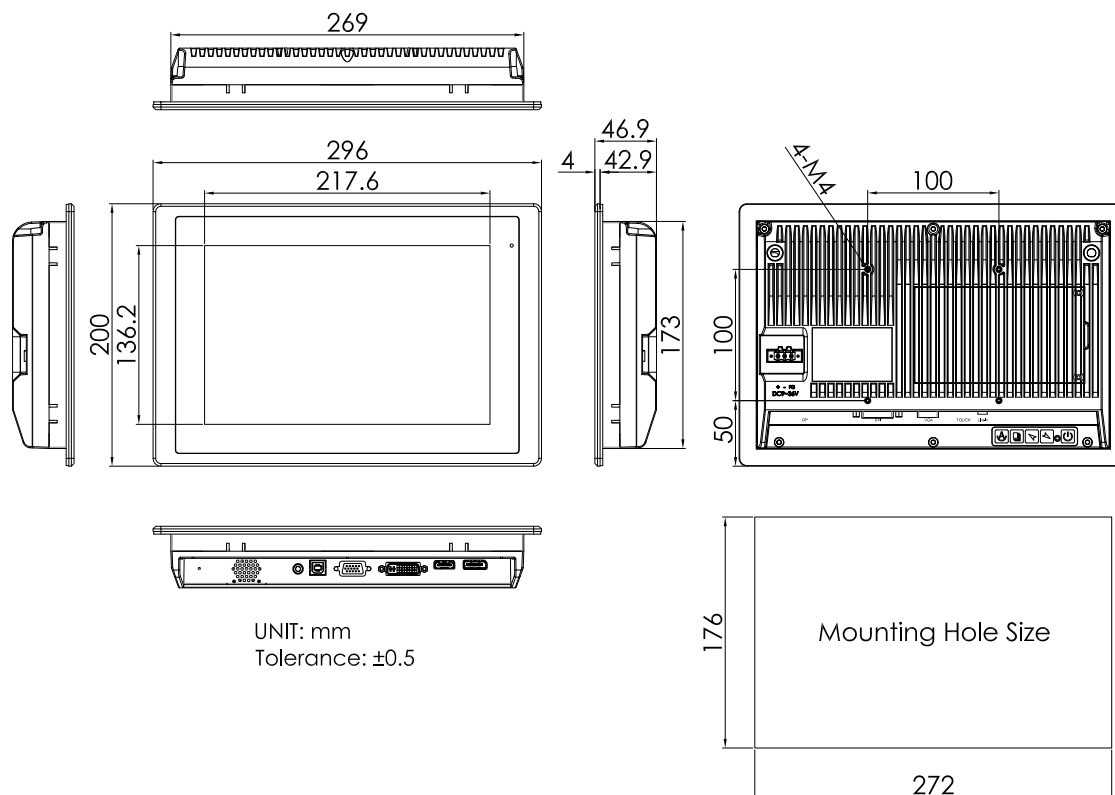
| Model Name                | FABS-118PRG(H)                                                                          |           |                     | FABS-119PRG(H) |                      | FABS-121PRG(H) |  |
|---------------------------|-----------------------------------------------------------------------------------------|-----------|---------------------|----------------|----------------------|----------------|--|
| I/O Port                  |                                                                                         |           |                     |                |                      |                |  |
| VGA                       | 1                                                                                       |           |                     |                |                      |                |  |
| DVI                       | 1 x DVI-D (share with HDMI)                                                             |           |                     |                |                      |                |  |
| HDMI                      | 1 x HDMI (share with DVI-D)                                                             |           |                     |                |                      |                |  |
| DP                        | 1                                                                                       |           |                     |                |                      |                |  |
| Audio                     | 1 x line-in                                                                             |           |                     |                |                      |                |  |
| OSD Control Membrane      | 5 keys at Rear                                                                          |           |                     |                |                      |                |  |
| Other                     | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option)                           |           |                     |                |                      |                |  |
| Power connector           | 1 x 3 pins Terminal Block Connector                                                     |           |                     |                |                      |                |  |
| Display                   |                                                                                         |           |                     |                |                      |                |  |
| Display type              | 18.5" TFT-LCD                                                                           |           | 19" TFT-LCD         |                | 21.5" TFT-LCD        |                |  |
| Max. resolution           | 1366 x 768                                                                              |           | 1280 x 1204         |                | 1920 x 1080          |                |  |
| Max. color                | 16.7M                                                                                   |           | 16.7M               |                | 16.7M                | 16.7M          |  |
| Luminance(cd/m²)          | 300                                                                                     | 1000      | 350                 | 1000           | 250                  | 1000           |  |
| View angle(H°/V°)         | 170 / 160                                                                               | 170 / 160 | 170/160             | 170/160        | 178/178              | 178/178        |  |
| Contrast                  | 1000: 1                                                                                 | 800: 1    | 1000: 1             | 1000: 1        | 1000: 1              | 1000: 1        |  |
| Backlight lifetime(hrs)   | 30000                                                                                   | 50000     | 50000               | 50000          | 50000                | 50000          |  |
| Option                    | Optical Bonding                                                                         |           |                     |                |                      |                |  |
| Touch Screen              |                                                                                         |           |                     |                |                      |                |  |
| Type                      | Resistive Touch(For R model)<br>Projected Capacitive(For P model)<br>Glass(For G model) |           |                     |                |                      |                |  |
| Interface                 | USB<br>RS-232 option for R model                                                        |           |                     |                |                      |                |  |
| Light transmission(%)     | Resistive Touch : 80%<br>Projected Capacitive and Glass : 90%                           |           |                     |                |                      |                |  |
| Power                     |                                                                                         |           |                     |                |                      |                |  |
| Power input               | DC 9~36V                                                                                |           |                     |                |                      |                |  |
| Power Consumption (TYP.)  | FABS-118P:18W(MAX)                                                                      |           | FABS-119PH:29W(MAX) |                | FABS-121G:13W(MAX)   |                |  |
| Mechanical                |                                                                                         |           |                     |                |                      |                |  |
| Construction              | 304 Stainless steel front bezel (Default) /316(option)<br>Aluminum Chassis              |           |                     |                |                      |                |  |
| IP rating                 | IP66 compliant front panel / IP69K(option)                                              |           |                     |                |                      |                |  |
| Mounting                  | Panel Mount, VESA Mount 100 x 100                                                       |           |                     |                |                      |                |  |
| Dimension(mm)             | 510 x 325 x 63.7                                                                        |           | 485 x 398 x 63.8    |                | 573.8 x 378.8 x 59.8 |                |  |
| Net weight(Kg)            | 6.58                                                                                    |           | 7.3                 |                | 8.5                  |                |  |
| Environment               |                                                                                         |           |                     |                |                      |                |  |
| Operating temperature(°C) | 0~50                                                                                    |           |                     |                |                      |                |  |
| Storage temperature(°C)   | -30~70                                                                                  |           |                     |                |                      |                |  |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                                       |           |                     |                |                      |                |  |
| Certification             | CE/FCC Class A<br>EN 1672-2 compliant for P/G model                                     |           |                     |                |                      |                |  |

## FABS-107P/R/G(H)



unit:mm

## FABS-110P/R/G(H)

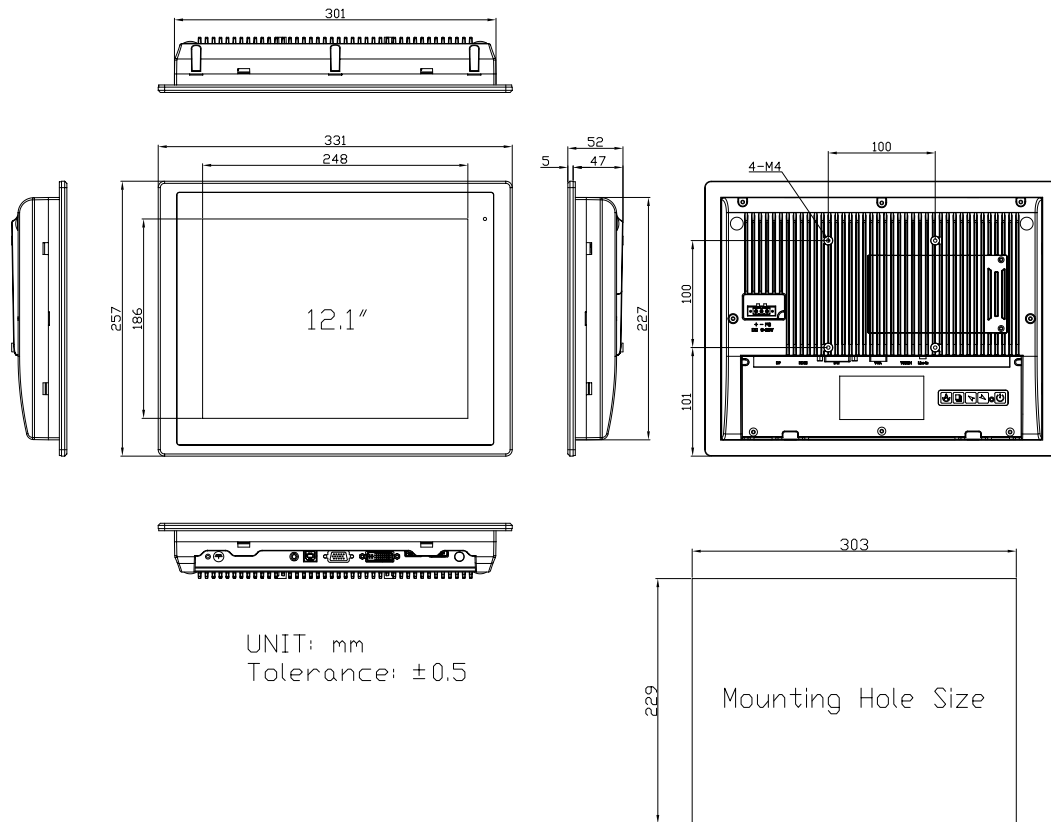


unit:mm

## FABS-1XXP(H) Series

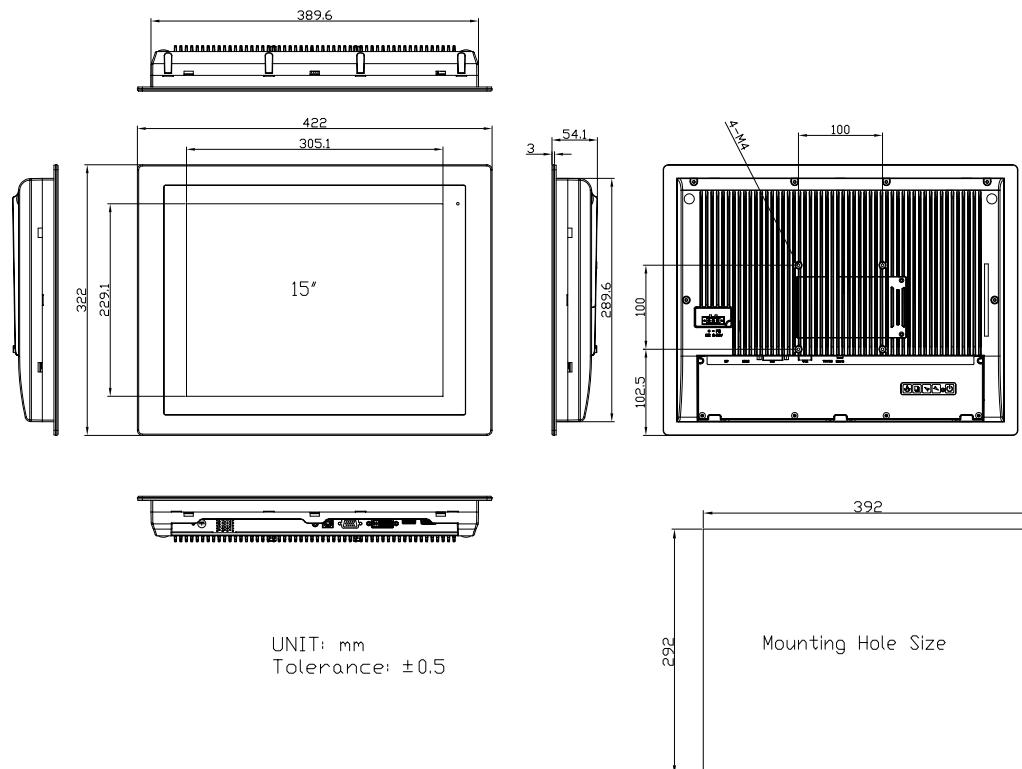
Food Safety Grade and Hygienic Design Display

### FABS-112P/R/G(H)



unit:mm

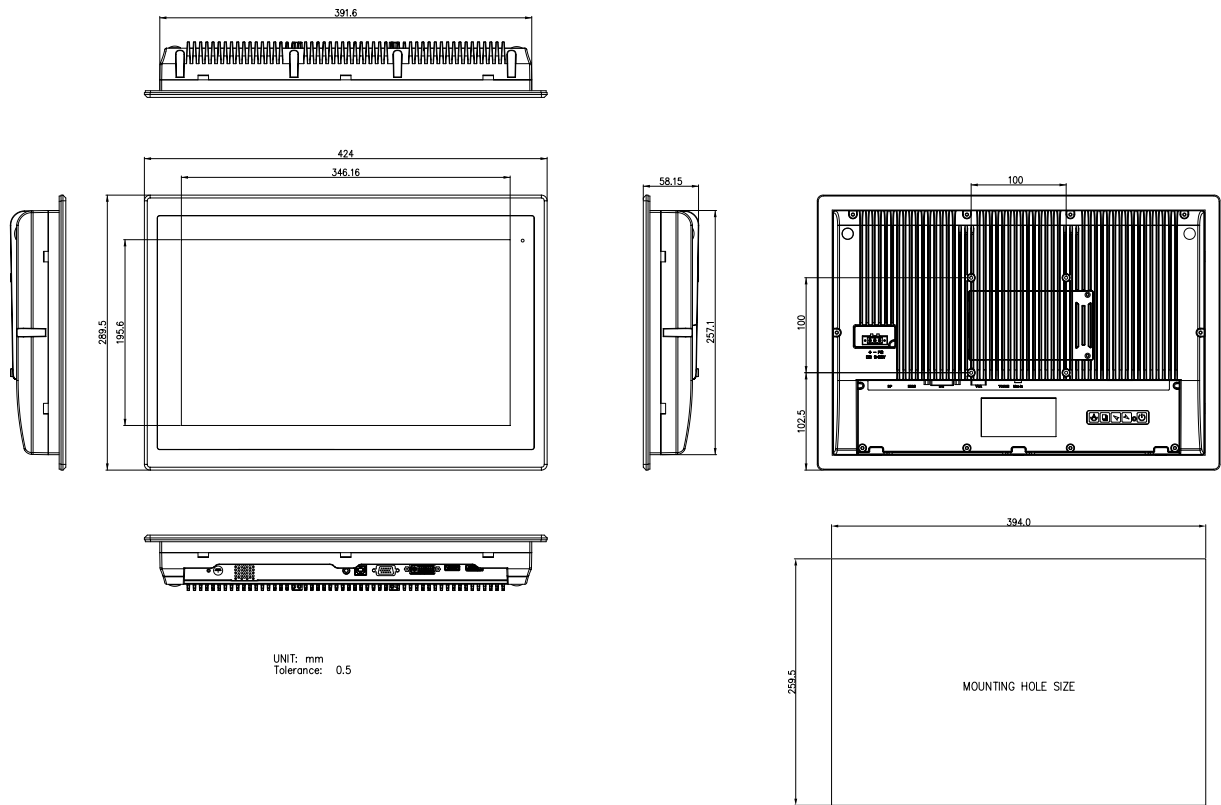
### FABS-115P/R/G(H)



unit:mm

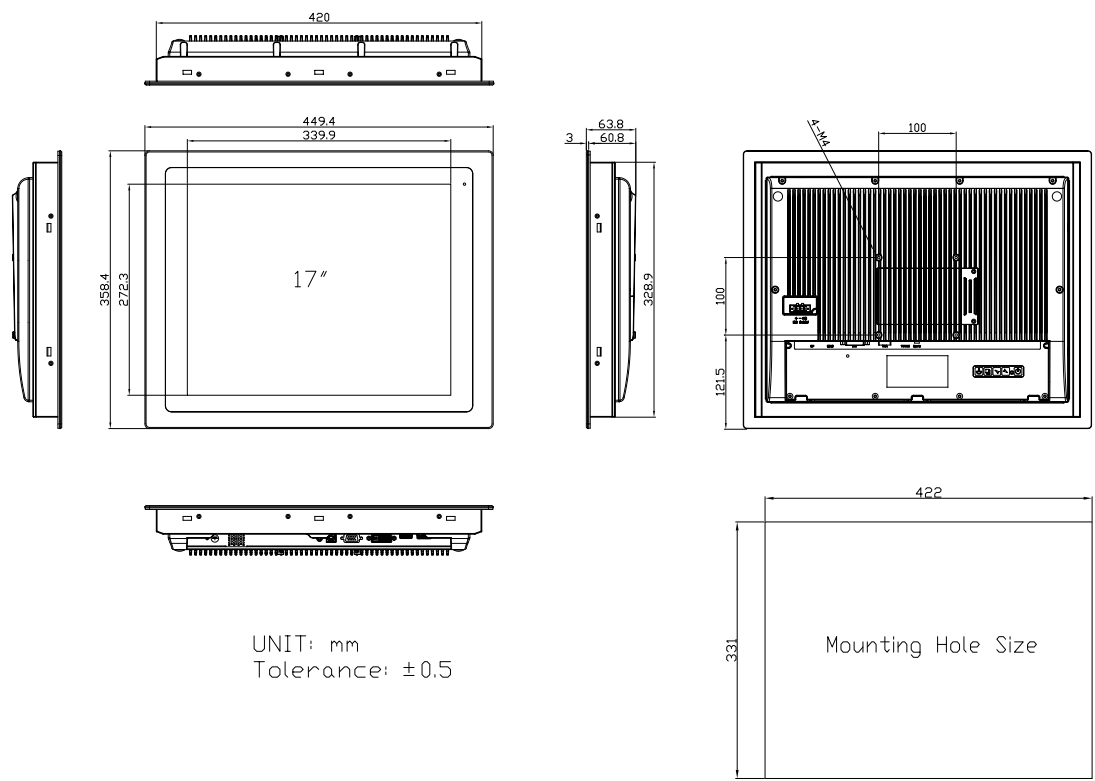


FABS-116P/R/G(H)



unit:mm

FABS-117P/R/G(H)

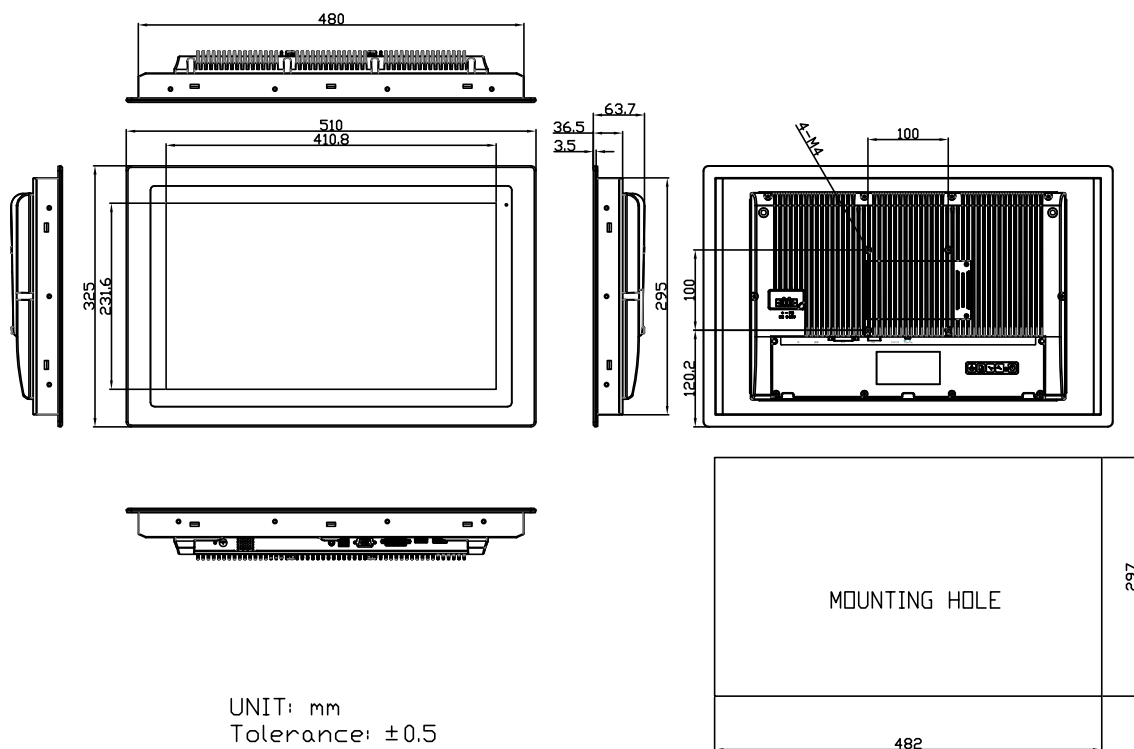


unit:mm

# FABS-1XXP(H) Series

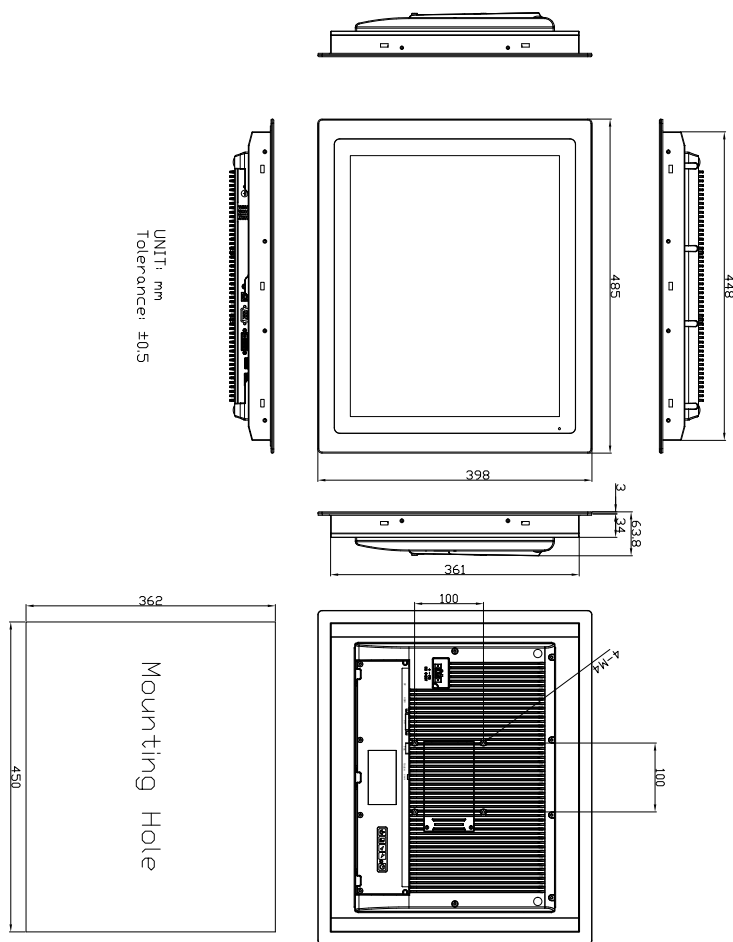
Food Safety Grade and Hygienic Design Display

## FABS-118P/R/G(H)



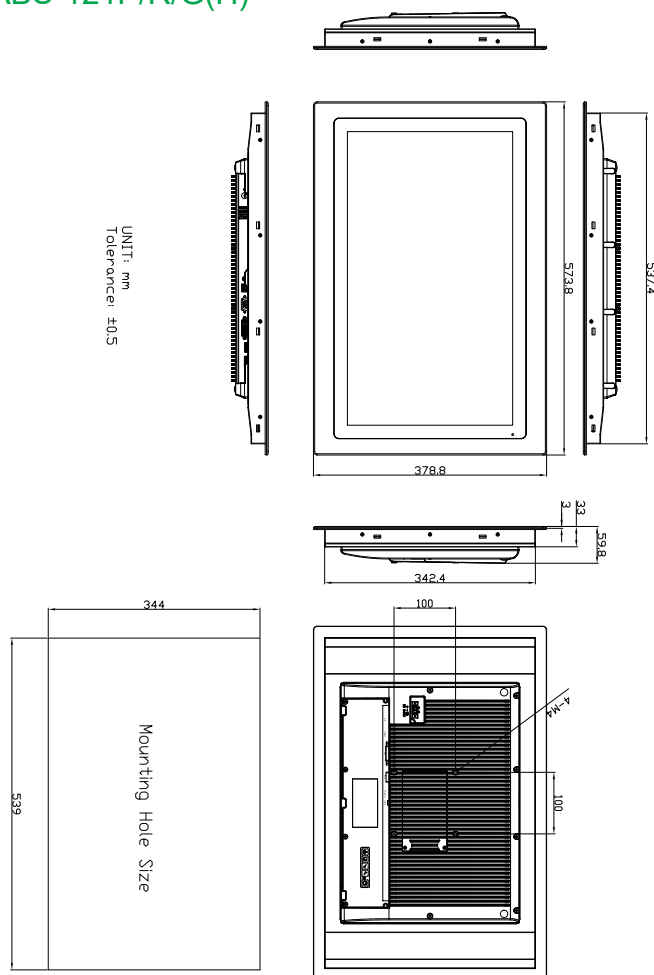
unit:mm

## FABS-119P/R/G(H)



unit:mm

## FABS-121P/R/G(H)



unit:mm

## Ordering information

| Model NO.        | Description                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FABS-107P</b> | 7" WVGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                 |
| <b>FABS-110P</b> | 10.1" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.              |
| <b>FABS-112P</b> | 12.1" SVGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.              |
| <b>FABS-115P</b> | 15" XGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                 |
| <b>FABS-116P</b> | 15.6" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis. |
| <b>FABS-117P</b> | 17" SXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                |
| <b>FABS-118P</b> | 18.5" WXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis. |
| <b>FABS-119P</b> | 19" SXGA FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                |
| <b>FABS-121P</b> | 21.5" FHD FPD Industrial display, Projected Capacitive Touch(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.               |
| <b>FABS-107R</b> | 7" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.        |
| <b>FABS-110R</b> | 10.1" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.     |
| <b>FABS-112R</b> | 12.1" SVGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.     |
| <b>FABS-115R</b> | 15" XGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.        |
| <b>FABS-116R</b> | 15.6" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.     |
| <b>FABS-117R</b> | 17" SXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.       |
| <b>FABS-118R</b> | 18.5" WXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.     |
| <b>FABS-119R</b> | 19" SXGA FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.       |
| <b>FABS-121R</b> | 21.5" FHD FPD Industrial display, Resistive touch screen(USB), VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.      |
| <b>FABS-107G</b> | 7" WVGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                                |
| <b>FABS-110G</b> | 10.1" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                             |
| <b>FABS-112G</b> | 12.1" SVGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                             |
| <b>FABS-115G</b> | 15" XGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                                |
| <b>FABS-116G</b> | 15.6" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.                |
| <b>FABS-117G</b> | 17" SXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                               |
| <b>FABS-118G</b> | 18.5" WXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input with Adapter, Stainless front bezel and Aluminum chassis.                |
| <b>FABS-119G</b> | 19" SXGA FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                               |
| <b>FABS-121G</b> | 21.5" FHD FPD Industrial display, protective glass, VGA, DVI, DP, and HDMI input, 5 keys Rear OSD, DC 9~36V power input, Stainless front bezel and Aluminum chassis.                              |

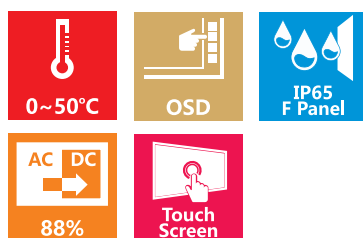


# ADP-1XX4A Series

## Industrial Display

### Steel Enclosure Display

- Black steel enclosure industrial display
- OSD Function Key
- Front Bezel IP65
- Resistive Touch Screen for Option
- Wide Range DC 9~36V and AC Power Input for Option



Black steel enclosure industrial display



Front bezel IP65 Rating



Wide Range DC 9~36V and AC Power Input for Option



Support panel & VESA mount



Easy to use function key



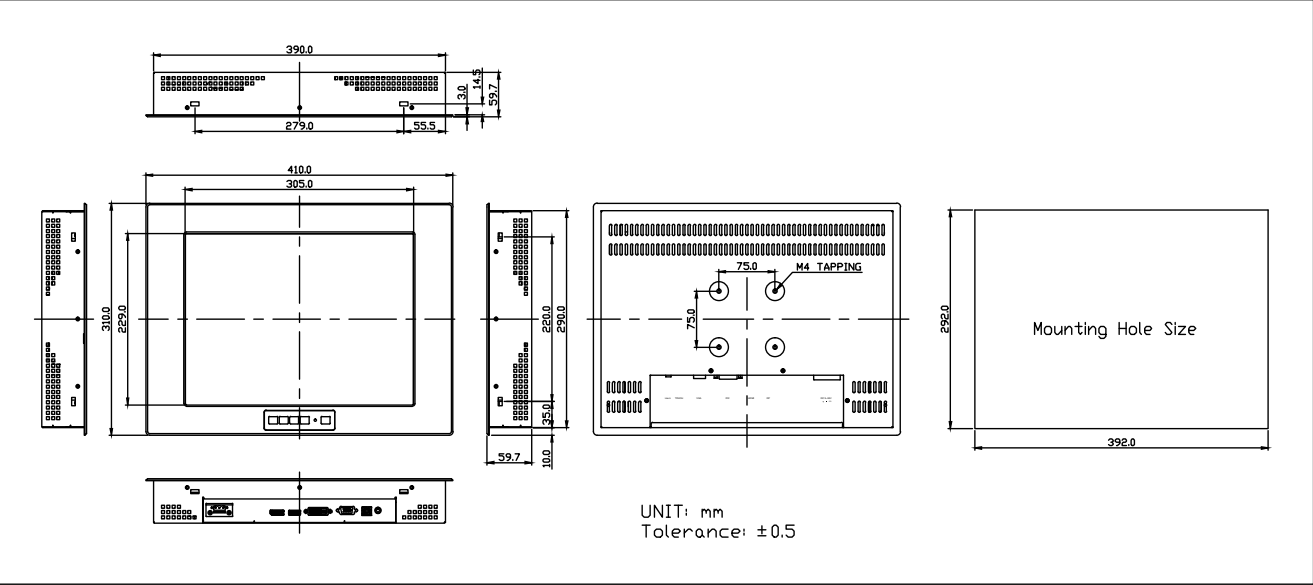


## Specifications

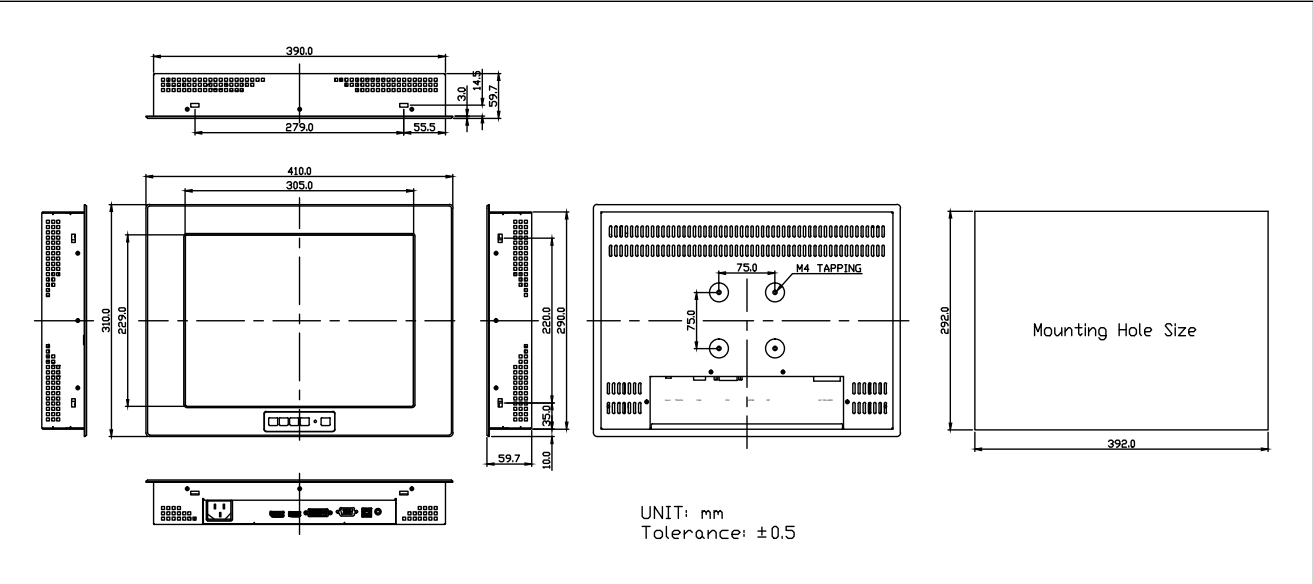
| Model Name                | ADP-1154AT(H)                                                        | ADP-1174AT(H)         | ADP-1194AT(H)           | ADP-1224AT(H)                                            |
|---------------------------|----------------------------------------------------------------------|-----------------------|-------------------------|----------------------------------------------------------|
| I/O Port                  |                                                                      |                       |                         |                                                          |
| VGA                       | 1 x VGA                                                              |                       |                         |                                                          |
| DVI                       | 1 x DVI-D (share with HDMI)                                          |                       |                         |                                                          |
| HDMI                      | 1 x HDMI (share with DVI-D)                                          |                       |                         |                                                          |
| DP                        | 1 x DP                                                               |                       |                         |                                                          |
| Audio                     | 1 x line-in                                                          |                       |                         |                                                          |
| OSD Control Membrane      | 5 keys at front<br>at rear side (option)                             |                       |                         |                                                          |
| Others                    | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option)        |                       |                         |                                                          |
| Power connector           | 1 x 3-pin terminal block connector<br>1 x AC inlet (option)          |                       |                         |                                                          |
| Display                   |                                                                      |                       |                         |                                                          |
| Display type              | 15" TFT-LCD                                                          | 17" TFT-LCD           | 19" TFT-LCD             | 21.5" TFT-LCD                                            |
| Max. resolution           | 1024 x 768                                                           | 1280 x 1024           | 1280 x 1024             | 1920 x 1080                                              |
| Max. color                | 16.7M                                                                | 16.2M                 | 16.7M                   | 16.7M                                                    |
| Luminance(cd/m²)          | 300                                                                  | 350                   | 350                     | 250                                                      |
| View angle(H°/V°)         | 176/176                                                              | 170/160               | 170/165                 | 178/178                                                  |
| Contrast                  | 2000: 1                                                              | 1000: 1               | 1000: 1                 | 3000: 1                                                  |
| Backlight lifetime(hrs)   | 70000                                                                | 30000                 | 50000                   | 30000                                                    |
| Touch Screen              |                                                                      |                       |                         |                                                          |
| Type                      | Resistive Touch(For T model)                                         |                       |                         |                                                          |
| Interface                 | USB/ RS-232 option                                                   |                       |                         |                                                          |
| Light transmission(%)     | Resistive Touch : 80%                                                |                       |                         |                                                          |
| Power                     |                                                                      |                       |                         |                                                          |
| Power input               | DC 9~36V<br>AC 100~240V (option)                                     |                       |                         |                                                          |
| Power Consumption (TYP.)  | ADP-1154AT: 12.9W (MAX)                                              | ADP-1174AT: 12W (MAX) | ADP-1194AT: 17.5W (MAX) | ADP-1224AT: 17.2W (MAX)                                  |
| Mechanical                |                                                                      |                       |                         |                                                          |
| Construction              | Black Steel Front Panel<br>Option Front Bezel : Stainless / Aluminum |                       |                         |                                                          |
| IP rating                 | Front side IP65                                                      |                       |                         |                                                          |
| Mounting                  | Panel mount / VESA mount 75 x 75 / Rack Mount (Option)               |                       |                         | Panel mount / VESA mount 100 x 100 / Rack Mount (Option) |
| Dimension(mm)             | 410 x 310 x 59.7                                                     | 439 x 348 x 63        | 467 x 379 x 68          | 557 x 362 x 65                                           |
| Net weight(Kg)            | 5.35                                                                 | 5.9                   | 7.2                     | 8                                                        |
| Environment               |                                                                      |                       |                         |                                                          |
| Operating temperature(°C) | 0~50                                                                 |                       |                         |                                                          |
| Storage temperature(°C)   | -30~70                                                               |                       |                         |                                                          |
| Humidity                  | 10 to 90% @ 40°C, non- condensing                                    |                       |                         |                                                          |
| Certification             | CE/FCC Class A                                                       |                       |                         |                                                          |

ADP-1154A

ADP-1154A DC



ADP-1154A AC



unit:mm

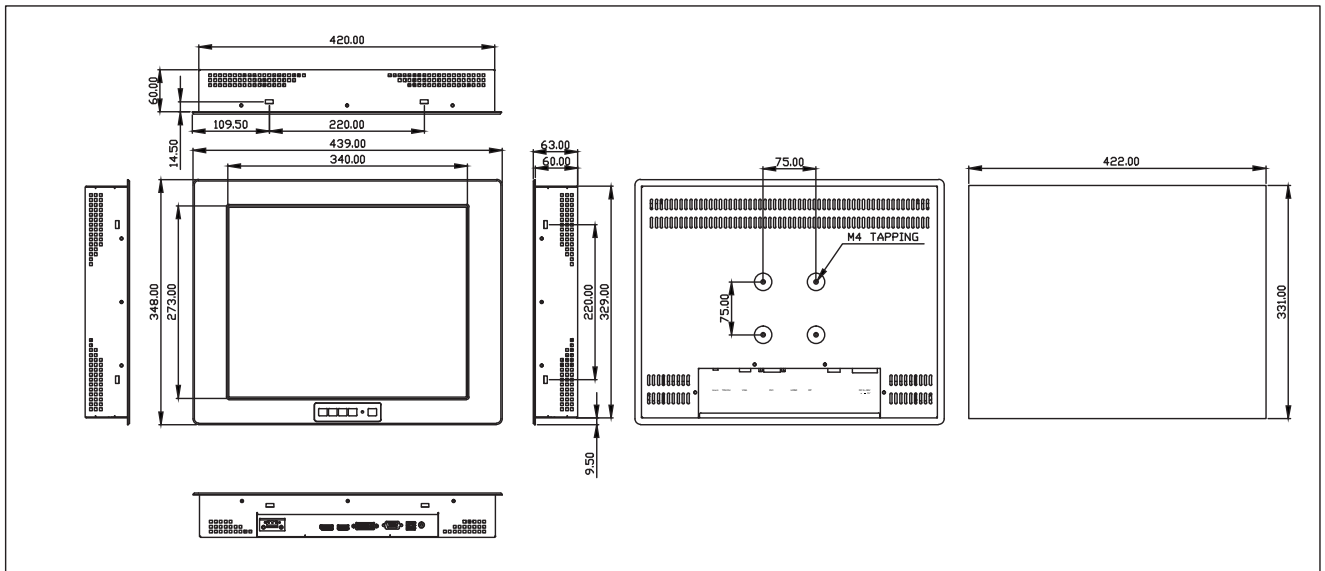
Ordering information

| Model NO. | Description                                                                                                                                             |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADP-1154A | 15" XGA Industrial Display, VGA, DVI, HDMI, and DP input, OSD on front side, without touch, 9~36VDC power input without power adapter, steel enclosure  |
| ADP-1174A | 17" SXGA Industrial Display, VGA, DVI, HDMI, and DP input, OSD on front side, without touch, 9~36VDC power input without power adapter, steel enclosure |

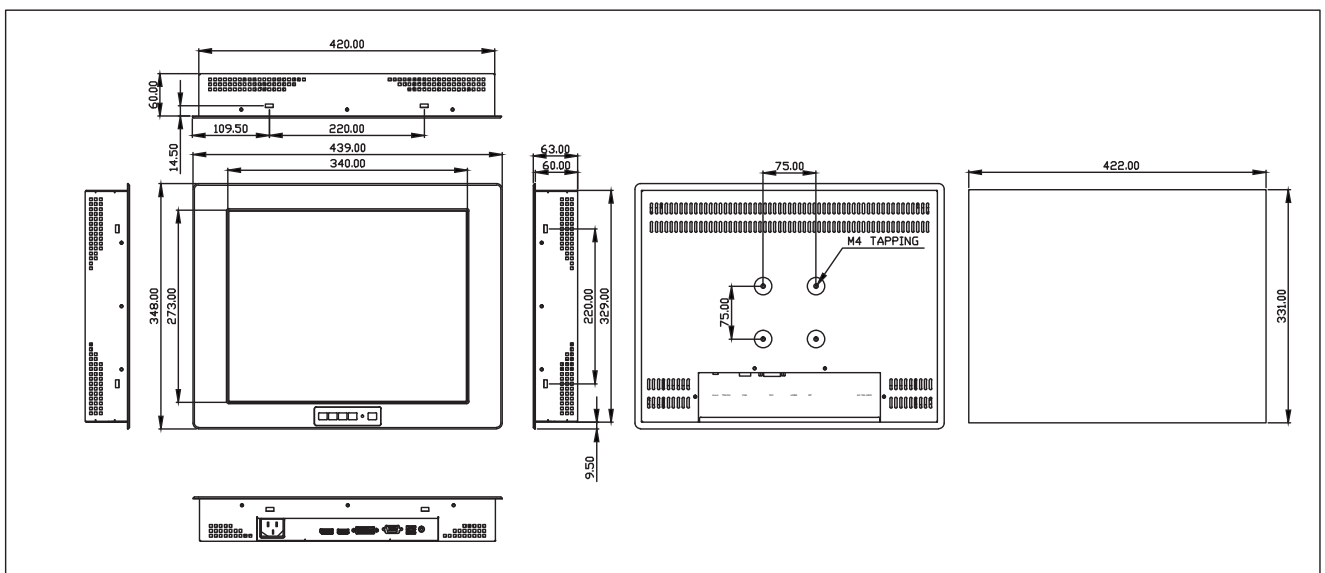


## ADP-1174A

### ADP-1174A DC



### ADP-1174A AC



unit:mm

## Ordering information

| Model NO. | Description                                                                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADP-1194A | 19" SXGA Industrial Display, VGA, DVI, HDMI, and DP input, OSD on front side, without touch, 9~36VDC power input without power adapter, steel enclosure      |
| ADP-1224A | 21.5" Full HD Industrial Display, VGA, DVI, HDMI, and DP input, OSD on front side, without touch, 9~36VDC power input without power adapter, steel enclosure |

## Industrial Display

Technical drawing of the ADP-1194A Audio Processor Unit, showing front, top, and side views with dimensions in millimeters.

**Front View Dimensions:**

- Overall Width: 379.00
- Overall Height: 467.00
- Internal Width: 302.00
- Internal Height: 377.30
- Bottom Flange Width: 14.50
- Bottom Flange Height: 65.00

**Top View Dimensions:**

- Overall Width: 360.00
- Overall Depth: 58.00
- Internal Width: 220.00
- Internal Depth: 70.00
- Left Flange Width: 3.00
- Left Flange Height: 9.50

**Side View Dimensions:**

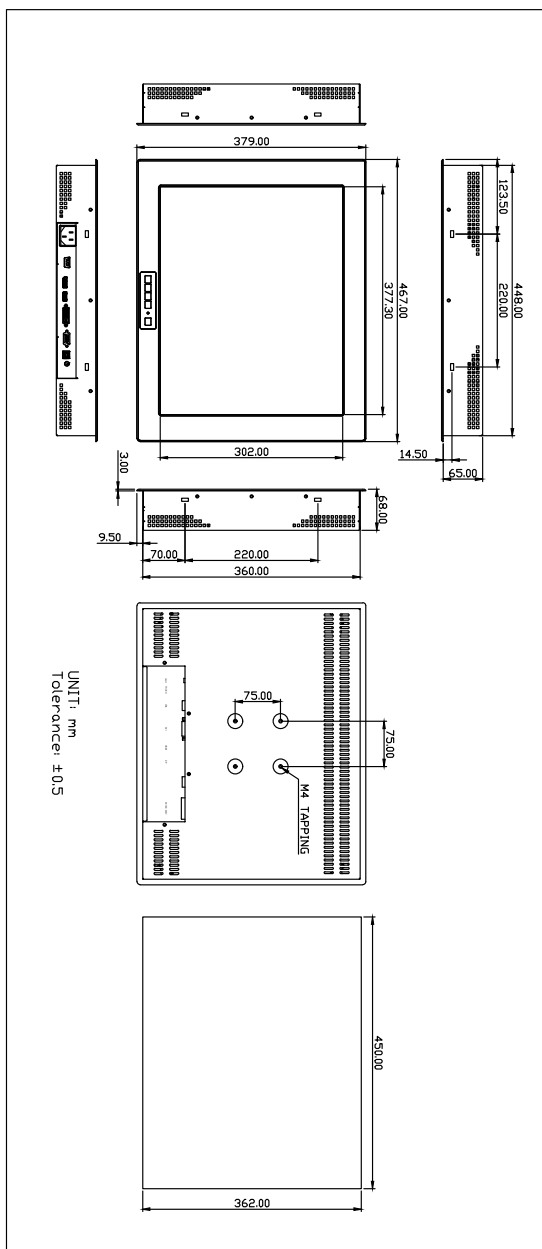
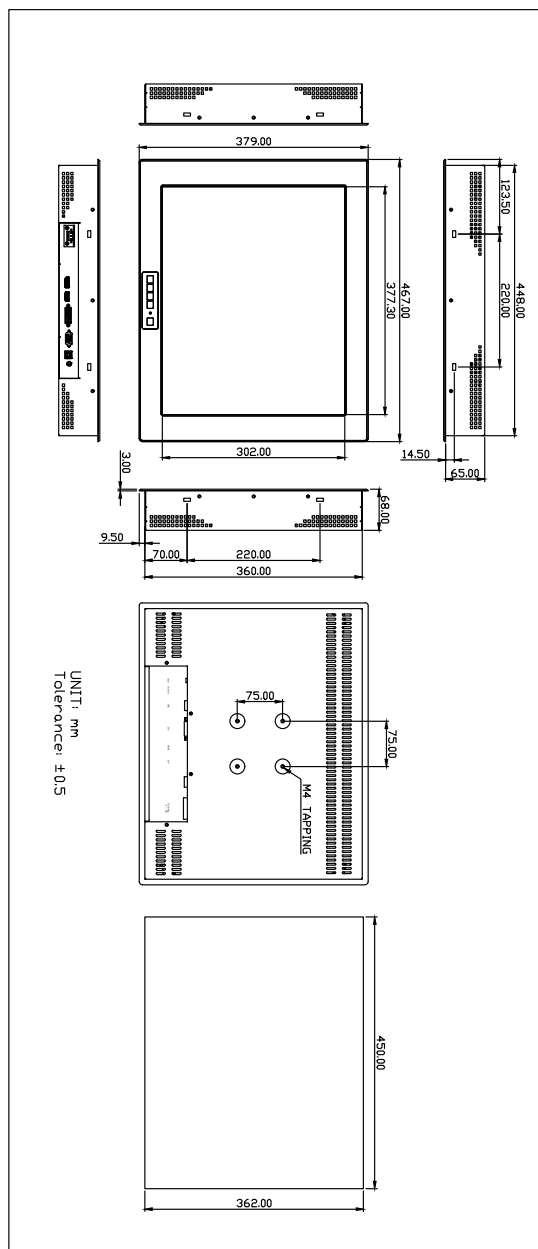
- Overall Depth: 448.00
- Internal Depth: 420.00
- Top Flange Height: 123.50
- Bottom Flange Height: 65.00

**Internal Features:**

- Top View shows a central rectangular area with a width of 220.00 and a depth of 70.00, surrounded by a border of 20.00 on the left and 20.00 on the right.
- Front View shows a central rectangular area with a width of 302.00 and a height of 377.30, surrounded by a border of 38.50 on the left and 38.50 on the right.
- Side View shows a central rectangular area with a depth of 420.00, surrounded by a border of 14.00 on the top and 14.00 on the bottom.

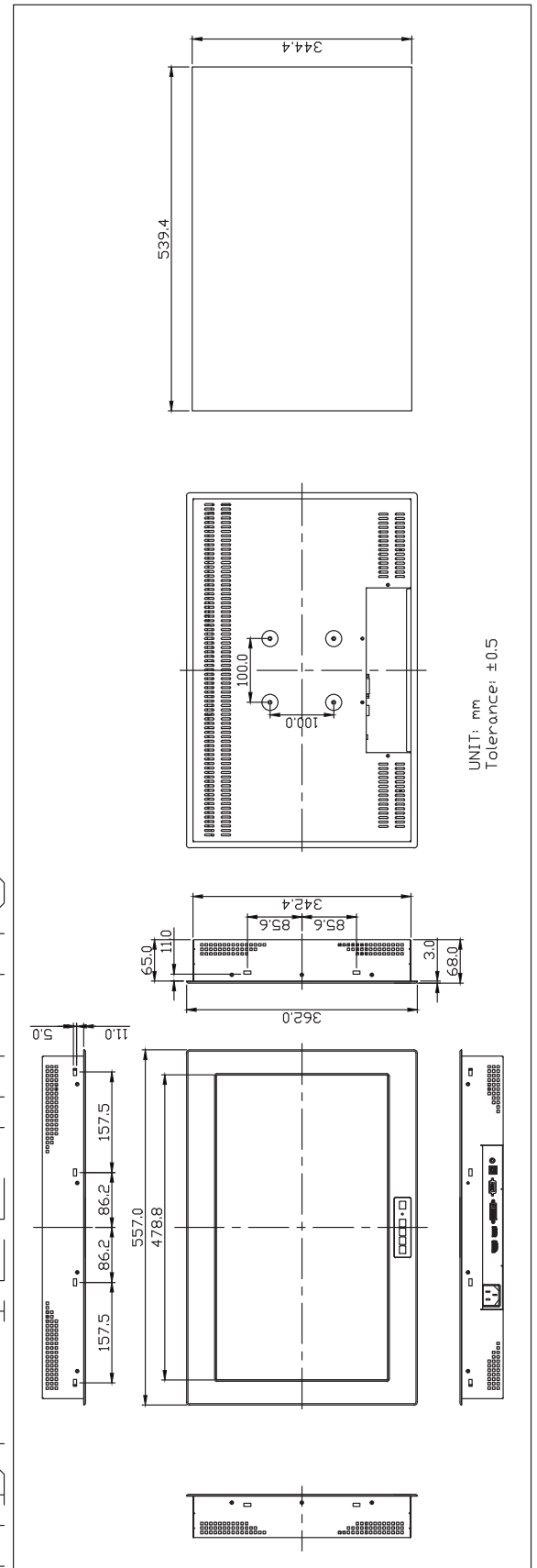
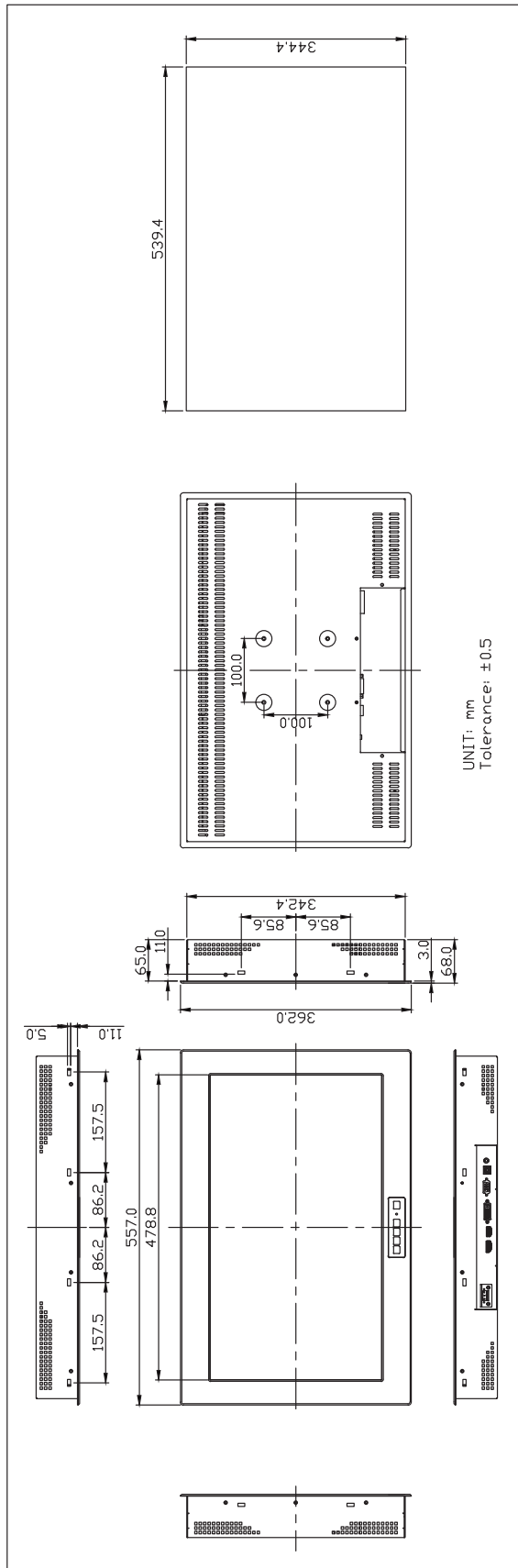
**Labels:**

- UNIT.
- TOEPL

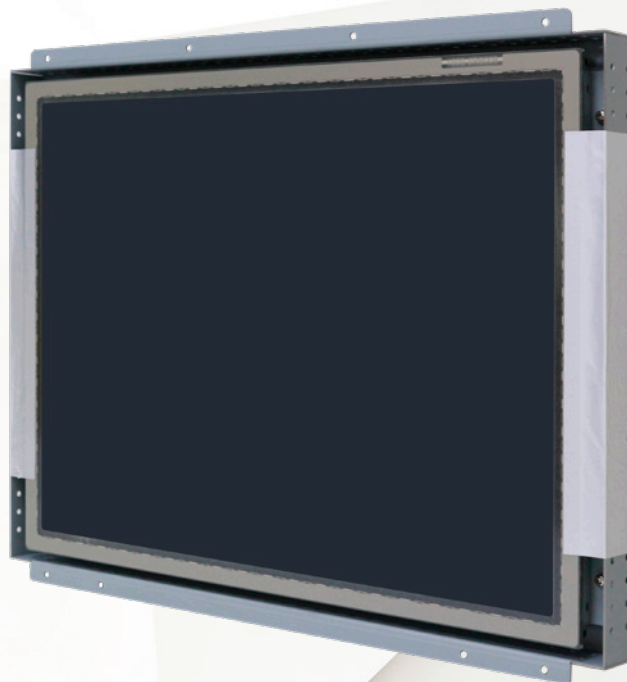


320 | Display

## ADP-1224A



unit:mm



# OPD-1XX6 Series

Open Frame Display

Industrial Steel Display

- APLEX Standard Open Frame Display
- OSD Function Key
- Resistive Touch Screen for Option
- Wide Range DC 9-36V



LED Backlight



Open frame design



Support Panel & VESA mount



Easy to use function key



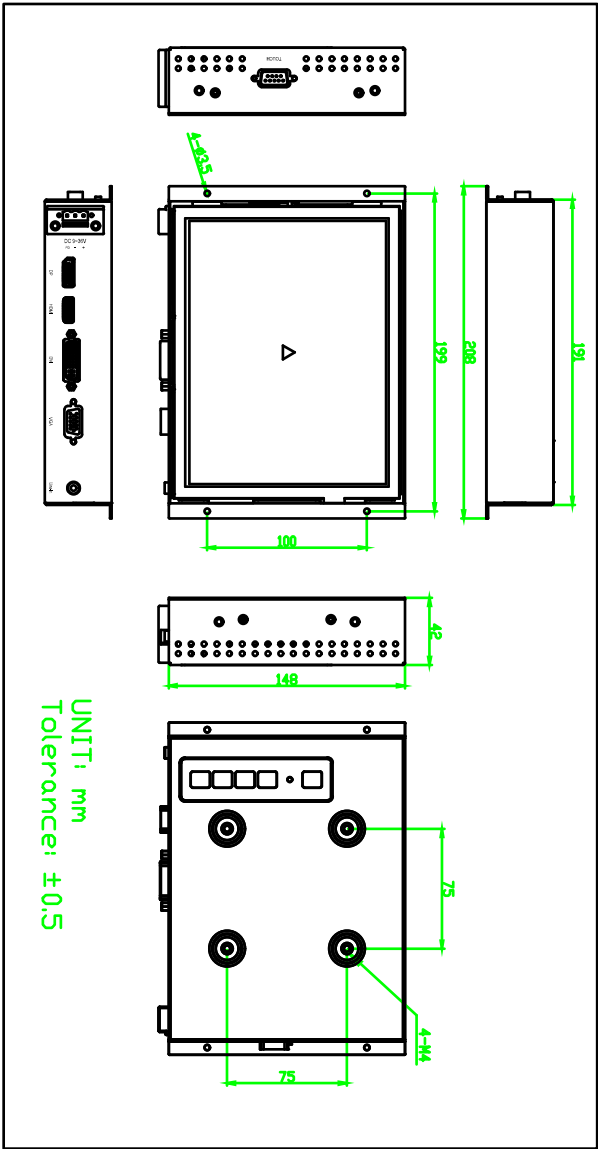
Steel enclosure



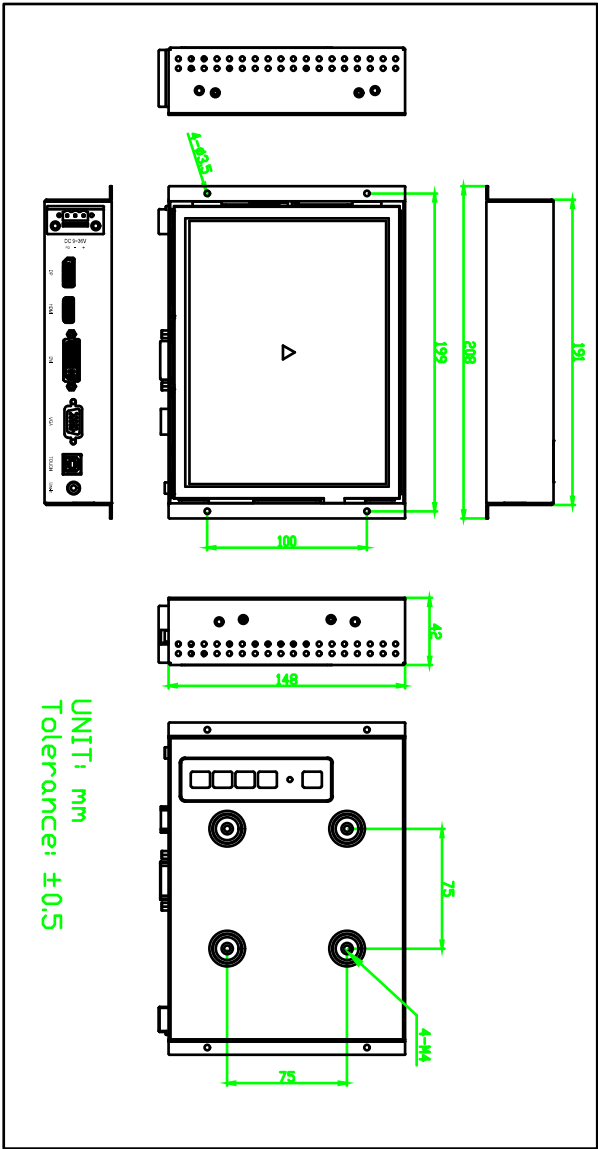


| Model Name                | OPD-1086CT(H)               |                                                               | OPD-1126AT(H) |                         | OPD-1156AT(H) |                        |  |
|---------------------------|-----------------------------|---------------------------------------------------------------|---------------|-------------------------|---------------|------------------------|--|
| I/O Port                  |                             |                                                               |               |                         |               |                        |  |
| VGA                       |                             | 1 x VGA                                                       |               |                         |               |                        |  |
| DVI                       | 1 x DVI-D (share with HDMI) |                                                               |               |                         |               |                        |  |
| HDMI                      |                             | 1 x HDMI (share with DVI-D)                                   |               |                         |               |                        |  |
| DP                        | 1 x DP                      |                                                               |               |                         |               |                        |  |
| Audio                     |                             | 1 x line-in                                                   |               |                         |               |                        |  |
| OSD Control Membrane      |                             | 5 keys at rear                                                |               |                         |               |                        |  |
| Others                    |                             | 1 x USB type B for touch<br>1 x RS-232 DB9 for touch (option) |               |                         |               |                        |  |
| Power connector           |                             | 1 x 3-pin terminal block connector                            |               |                         |               |                        |  |
| Display                   |                             |                                                               |               |                         |               |                        |  |
| Display type              |                             | 8" TFT-LCD                                                    |               | 12.1" TFT-LCD           |               | 15" TFT-LCD            |  |
| Max. resolution           |                             | 800 x 600                                                     |               | 800 x 600               |               | 1024 x 768             |  |
| Max. color                |                             | 16.2M                                                         |               | 16.2M                   |               | 16.7M                  |  |
| Luminance(cd/m²)          |                             | 450                                                           |               | 450                     |               | 300                    |  |
| View angle(H°/V°)         |                             | 140/120                                                       |               | 178/178                 |               | 176/176                |  |
| Contrast                  |                             | 500: 1                                                        |               | 1500: 1                 |               | 2000: 1                |  |
| Backlight lifetime(hrs)   |                             | 40000                                                         |               | 50000                   |               | 70000                  |  |
| Touch Screen              |                             |                                                               |               |                         |               |                        |  |
| Type                      |                             | Resistive Touch(For T model)                                  |               |                         |               |                        |  |
| Interface                 |                             | USB<br>RS-232 option                                          |               |                         |               |                        |  |
| Light transmission(%)     |                             | Resistive Touch : 80%                                         |               |                         |               |                        |  |
| Power                     |                             |                                                               |               |                         |               |                        |  |
| Power input               |                             | DC 9~36V                                                      |               |                         |               |                        |  |
| Power Consumption (TYP.)  |                             | OPD-1086C(T): 5W(MAX)                                         |               | OPD-1126A(T): 13W (MAX) |               | OPD-1156A(T): 13W(MAX) |  |
| Mechanical                |                             |                                                               |               |                         |               |                        |  |
| Construction              |                             | Steel Chassis                                                 |               |                         |               |                        |  |
| IP rating                 |                             | N/A                                                           |               |                         |               |                        |  |
| Mounting                  |                             | Panel mount / VESA mount 75 x 75                              |               |                         |               |                        |  |
| Dimension(mm)             |                             | 208 x 191 x 42                                                |               | 300 x 250 x 38          |               | 357 x 291 x 56.2       |  |
| Net weight(Kg)            |                             | 1.3                                                           |               | 1.9                     |               | 3.7                    |  |
| Environment               |                             |                                                               |               |                         |               |                        |  |
| Operating temperature(°C) |                             | 0~50                                                          |               |                         |               |                        |  |
| Storage temperature(°C)   |                             | -30~70                                                        |               |                         |               |                        |  |
| Humidity                  |                             | 10 to 90% @ 40°C, non- condensing                             |               |                         |               |                        |  |
| Certification             |                             | CE/FCC Class A                                                |               |                         |               |                        |  |

OPD-1086C



OPD-1086C RS-232



OPD-1086C USB

unit:mm

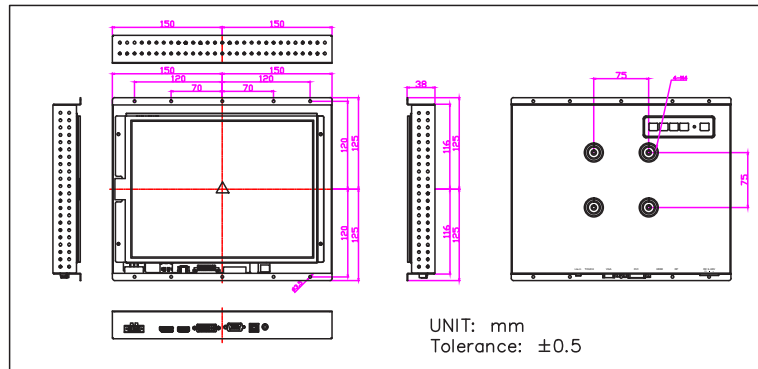
Ordering information

| Model NO. | Description                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| OPD-1086C | 8" SVGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter.    |
| OPD-1126A | 12.1" SVGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter. |
| OPD-1156A | 15" XGA open frame, VGA, DVI, HDMI, and DP input, OSD on back side, without touch, 9~36VDC power input without power adapter.    |

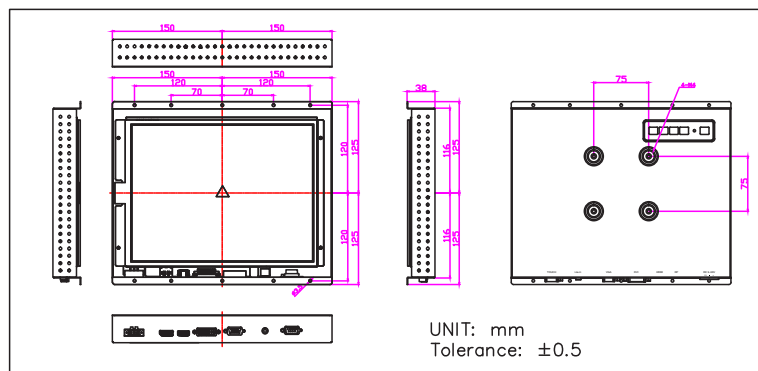


OPD-1126A

OPD-1126A USB



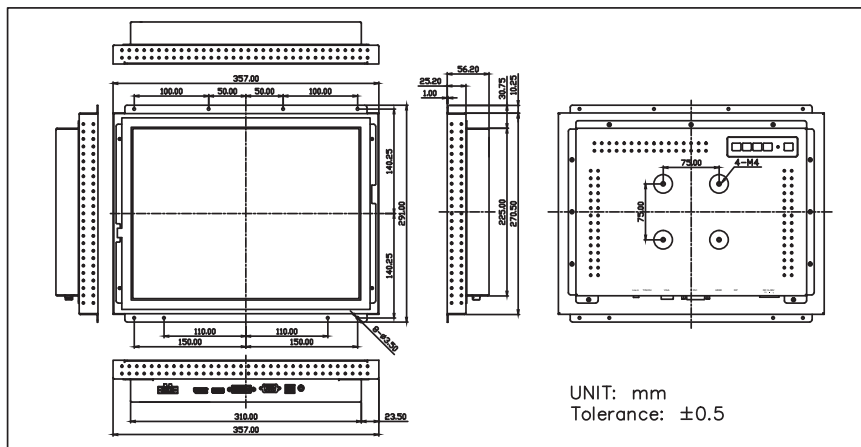
OPD-1126A RS-232



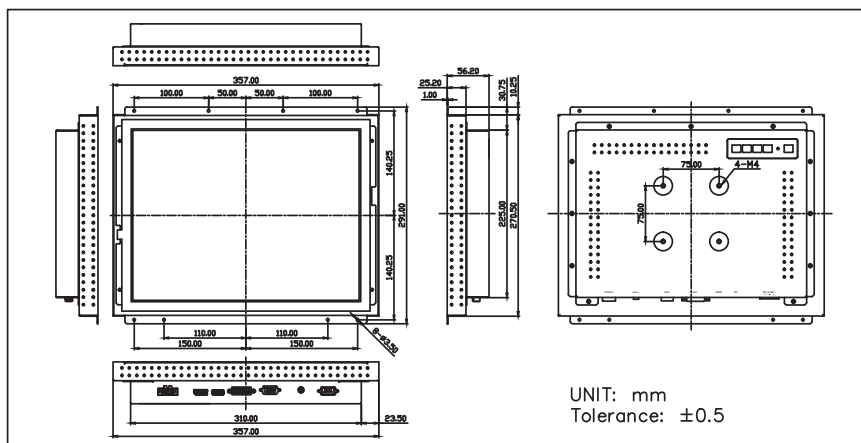
unit:mm

OPD-1156A

OPD-1156A USB



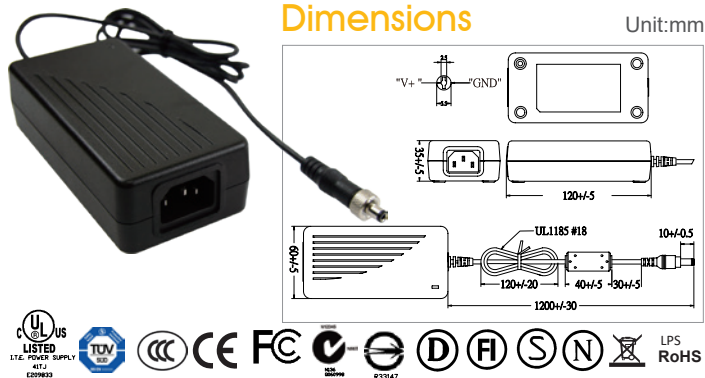
OPD-1156A RS232



unit:mm

# Power Supply

## EA1050 60W AC/DC Power Adapter



### Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 12V
- Output Current: 5A
- Output Watts: 60W
- Efficiency: 75%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

### Connector Type

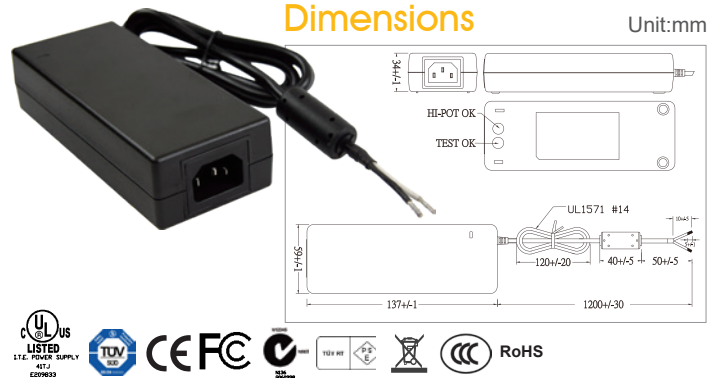


### Ordering information

#### Description

- 60W AC/DC Power Adapter (Plug ID2.5 x OD5.5 )
- 60W AC/DC Power Adapter (2pin Soldered Wires)
- 60W AC/DC Power Adapter (3pin Terminal Block)
- 60W AC/DC Power Adapter (Plug with Lock Screw ID2.5 x OD5.5)

## EA11001 120W AC/DC Power Adapter



### Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 19V
- Output Current: 6.3A
- Output Watts: 120W
- Efficiency: 85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

### Connector Type



### Ordering information

#### Description

- 120W AC/DC Power Adapter (2pin Soldered Wires)
- 120W AC/DC Power Adapter (3pin Terminal Block)

## EA11351 120W AC/DC Power Adapter



### Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 12V
- Output Current: 10A
- Output Watts: 120W
- Efficiency: 85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

### Connector Type



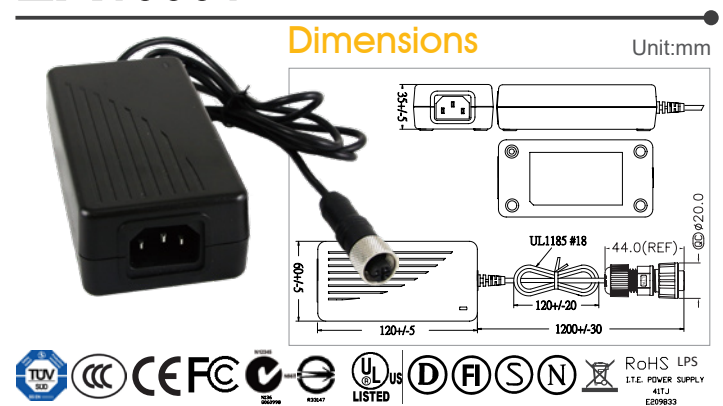
### Ordering information

#### Description

- 120W AC/DC Power Adapter (Plug with Lock Screw ID2.5 x OD5.5)

## IP65 Waterproof Connector

## EA1050 60W AC/DC Power Adapter



### Specifications

- Input Voltage Range : 100-240 VAC +/- 10% full range
- Output Frequency: 47~63 Hz
- Output Voltage: EA1050:12V/EA10001:19V
- Output Current: EA1050:5A/EA10001:6.3A
- Output Watts: EA1050:60W/EA10001:120W
- Efficiency: EA1050:75%/EA10001:85%
- Operating Temperature: 0°C~40°C
- Storage Temperature: -20°C~85°C

### Connector Type



### Ordering information

#### Description

- 60W AC/DC Power Adapter (IP65 Waterproof Connector)
- 120W AC/DC Power Adapter (IP65 Waterproof Connector)

# Total IP65 Waterproof Power Supply

M12 Full IP65 Waterproof Connector

## HLG-60H-24A 60W AC/DC Power Adapter



### Specifications

- Input Voltage Range : 90~305V AC +/- 10% full range
- Input Frequency: 47~63 Hz
- Output Voltage: 24V
- Output Current: 2.5A
- Output Watts: 60W
- Efficiency: 89%
- Operating Temperature: -40°C~70°C
- Storage Temperature: -40°C~80°C

### Connector Type



#### Ordering information

##### Description

AC90~305V IN/DC 24V OUT/60W/HLG-60H-24A/POWER  
CORD TYPE B (US type)

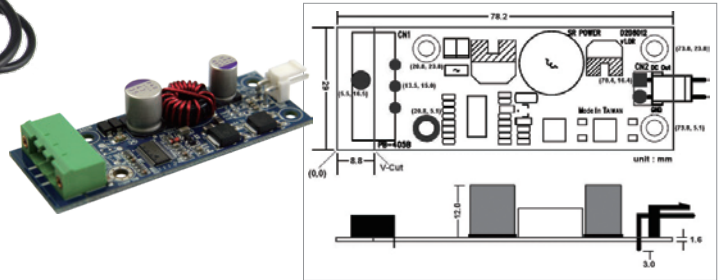
AC90~305V IN/DC 24V OUT/60W/HLG-60H-24A/POWER  
CORD TYPE G (EU type)

# Accessory Power Module

## PB-405B DC/DC Power Module

### Dimensions

Unit:mm



### Specifications

- Wide range DC input 11~32V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 95% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

### Pin Assignments

Output Connector

| CN2 | Pin1 | Pin2 |
|-----|------|------|
|     | +12V | GND  |

#### Ordering information

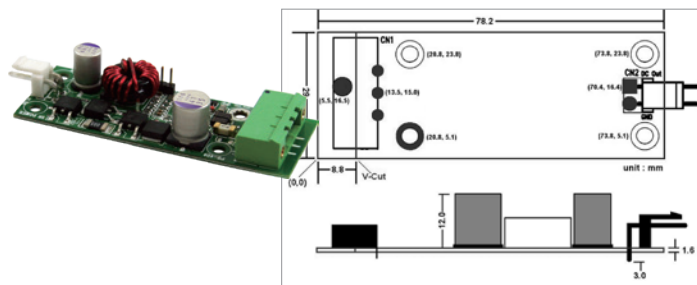
##### Description

PB-405B/80W DC/DC Power Module, DC input 11~32V

## PB-409 DC/DC Power Module

### Dimensions

Unit:mm



### Specifications

- Wide range DC input 9~35V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 92% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

### Pin Assignments

Output Connector

| CN2 | Pin1 | Pin2 |
|-----|------|------|
|     | +12V | GND  |

#### Ordering information

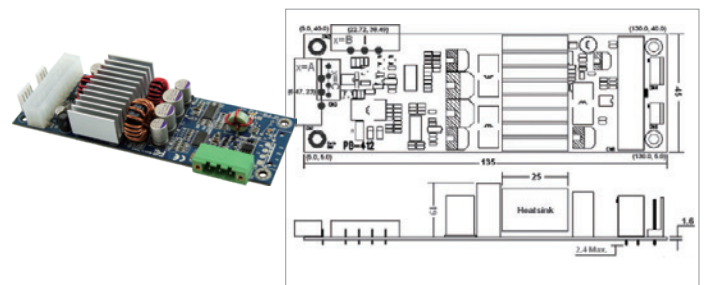
##### Description

PB-409/80W DC/DC Power Module, DC input 9~35V

## PB-412 DC/DC Power Module

### Dimensions

Unit:mm



### Specifications

- Wide range DC input 11~32V
- AT Mode
- Output (Max.) 12V@6.6A
- Max. total output : 80W
- Up to 95% Efficiency
- Dimensions:78.2mm x 29mm
- Operating Temperature: -20°C~60°C
- Storage Temperature: -40°C~70°C

### Pin Assignments

Output Connector

| CN6 | Standard 20Pin ATX |
|-----|--------------------|
|-----|--------------------|

#### Ordering information

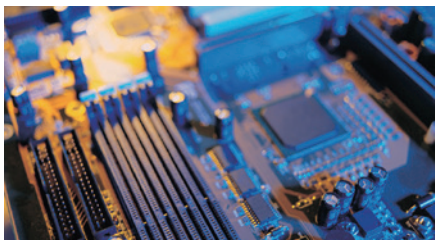
##### Description

PB-412A/140W DC/DC Power Module/DC input 11~32V

PB-412B/140W DC/DC Power Module/DC input 11~32V

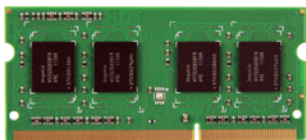
# Industrial DRAM Module Series

## Features



- Industrial Memory
- Temperature Ranges
  - Industrial Temperature: 0~70°C for operating
  - Extensive Temperature: -40~85°C for operating
- 100% Original DRAM IC
- High Reliability
- Lifetime Warranty

## DDR3(L) Solution (Extensive Temperature)



SO-DIMM

### Specifications

| Item    | Description             |
|---------|-------------------------|
| SO-DIMM | DDR3 1066/1333 1GB      |
|         | DDR3 1066/1333/1600 2GB |
|         | DDR3 1066/1333/1600 4GB |
|         | DDR3 1600 8GB           |

## DDR4 Solution (Extensive Temperature)



SO-DIMM

### Specifications

| Item    | Description              |
|---------|--------------------------|
| SO-DIMM | DDR4 2133/2166/2400 4GB  |
|         | DDR4 2133/2166/2400 8GB  |
|         | DDR4 2133/2166/2400 16GB |

## Accessory:Stand

### D-100 Stand



### Specifications

- Apply to 5.7" ~ 17" LCD monitor
- VESA75/100 stand
- Support up to 10kg
- Adjustable display angle
- White color
- Material: Heavy-duty steel
- RoHS compliant

Description

D-100 Stand

### D-101 Stand



### Specifications

- Apply to 5.7" ~ 15" LCD monitor
- VESA75/100 stand
- Support up to 7kg
- Adjustable display angle
- Black color
- Material: Plastic and steel
- RoHS compliant

Description

D-101 Stand

### D-102 Stand



### Specifications

- Apply to 5.7" ~ 24" LCD monitor
- VESA75/100 stand
- Support up to 15kg
- Adjustable display angle
- Black color
- Material: Heavy-duty steel
- RoHS compliant

Description

D-102 Stand



## Your Best Choice

# Industrial PCs Solutions



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