

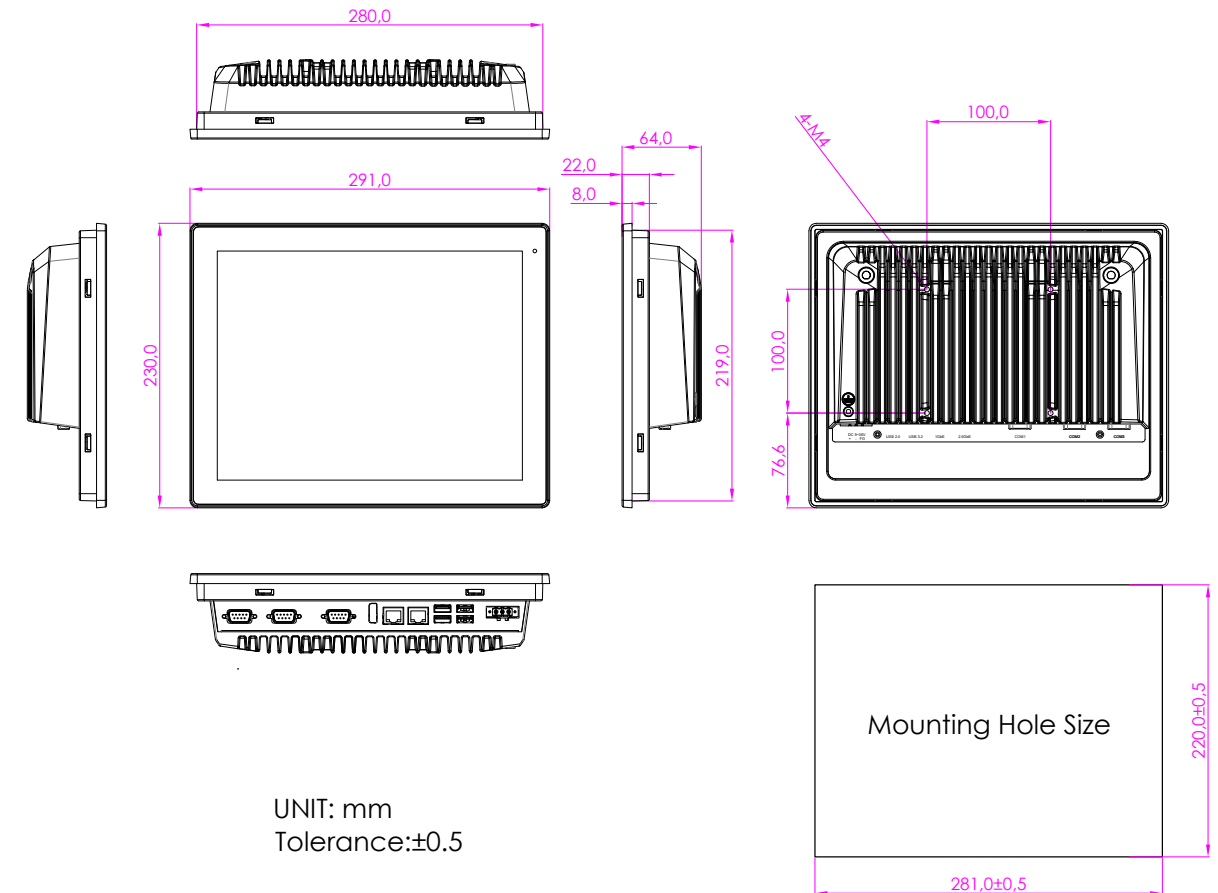
Features

- 12.1" Industrial Grade Multitouch Panel PC
- IP66 Compliant Aluminum Narrow Bezel Design
- 12th/13th Gen. Intel Core Processor
- Support 2 x DDR4-3200MHz SO-DIMM, up to 64GB
- 7H Anti-scratch Projected Capacitive Multi-touch Screen
- Support High Brightness LCD (Optional)
- Support Auto-Dimming (PB-49/50)(Optional)
- DC 9~36V Power Input
- Fanless Design

Specifications

System		
CPU	Intel Core i3-1215U, 2P+4E, 1.2 GHz Base, TDP=15W Intel Core i5-1235U, 2P+8E, 1.3 GHz Base, TDP=15W Intel Core i7-1255U, 2P+8E, 1.7 GHz Base, TDP=15W Intel Core i3-1315UE, 2P+4E, 1.2 GHz Base, TDP=15W Intel Core i5-1335UE, 2P+8E, 1.3 GHz Base, TDP=15W Intel Core i7-1365UE, 2P+8E, 1.7 GHz Base, TDP=15W	
System Chipset	SoC	
Memory	2 x DDR4 3200Mhz SO-DIMM, up to 64GB	
BIOS	AMI UEFI	
I/O Port		
USB	2 x USB 3.2 Gen 1 Type-A, 2 x USB 2.0 Type-A	
Serial/Parallel	1 x DB9, supports RS-232/422/485 (COM1, BIOS selection, RS-232 is default)	
	1 x DB9, supports RS-232/422/485 (COM2, BIOS selection, RS-232 is default)	
	1 x DB9, supports RS-232(COM3) as standard, optional 2 x USB 2.0 Type-A	
Display Output	1 x HDMI 2.1, resolution up to 4096 x 2304@60Hz	
LAN	2 x RJ-45, support Intel I210-AT/I219-V 1GbE LAN	
Power	1 x Terminal Block Type, DC 9~36V Power Input	
Storage Space		
HDD/SSD	1 x M.2 2280 M-Key socket (PCIe 3.0 x4)	
Expansion		
Expansion slot	1 x M.2 2230 E-Key (USB2.0, PCIe x1) for optional Wi-Fi/BT module 1 x M.2 3402/3052 B-Key (PCIe x1, USB3.2 Gen1, USB2.0) for optional LTE/5G module 1 x Nano-SIM slot	
Storage Space		
TPM	Onboard TPM2.0 SPI I/F TPM Infineon_SLM8670 IC	
Watchdog Timer	1~255 sec (system)	
Wake on LAN	Support WOL	
Dispalay	Standard	High Brightness by SKU
Display Type	12.1" TFT-LCD	12.1" TFT-LCD
Max. Resolution	1024 x 768	1024 x 768
Max. Color	16.2M	16.7M
Luminance (cd/m ²)	350	1,000
View Angle	170(H)/170(V)	178(H)/178(V)
Contrast	800:1	800:1
Backlight Lifetime	30,000 hrs	70,000 hrs
Touch Screen		
Type	Projected Capacitive Touch	
Interface	USB	
Light Transmission(%)	90%	

Dimensions



UNIT: mm
Tolerance:±0.5

Power	
Power Input	DC 9~36V
Power Consumption	TBD
Mechanical	
Construction	Aluminum Die-casting Chassis
Mounting	Panel Mount, VESA 100 x 100
IP Rating	IP66 Compliant Front Bezel
Dimensions (WxHxD)	291 x 230 x 64 mm
Net Weight	TBD
Environmental	
Operating Temperature	-20~60°C
Storage Temperature	-30~70°C
Humidity	10 to 95%@ 40°C, non-condensing
Certificate	CE/FCC Class A
Operating System Support	
Windows 10 IoT Enterprise 2021 LTSC or later Windows 11 (21H2) or later Linux 22.04 or later	
Ordering Information	
AiTRON-912DP	12.1" XGA fanless HMI barebone with 12th/13th Gen. Intel Core i Processor, 2 x DDR4 slots, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.
AiTRON-912DPH	12.1" XGA High Brightness fanless HMI barebone with 12th/13th Gen. Intel Core i Processor, 2 x DDR4 slots, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.