ABOS-921DP

Intel 13th/12th Raptor Lake/Alder Lake i3/i5/i7 Processor Button-integrated Panel PC





Features

- 21.5" Full HD TFT-LCD
- Intel 13th/12th Gen. Raptor Lake-U/Alder Lake-U Processors
- 16:9 Widescreen with P-CAP Multi-touch Control
- RFAI Built-in Functional Buttons for Intuitive Operation
- Available with Configurable Button Area for the Installation of Hard-wired Elements
- Top/Bottom Swing Arm Mounting
- IP65 Full Sealed with Swing Arm kit
- Gap free Sealing and Slim Front Frame Architecture at Front Bezel
- DC 9~36V Power Input

Specifications

System	
CPU	Intel Core i3-1215U, 2C+4A, up to 4.4GHz(P-Core) 3.3GHz (E-Core), 15W-55W (Default) Intel Core i5-1235U, 2C+8A, up to 4.4GHz(P-Core) 3.3GHz (E-Core), 15W-55W Intel Core i3-1315UE, 2C+4A, up to 4.5GHz(P-Core) 3.3GHz (E-Core), 15W-55W Intel Core i5-1335UE, 2C+8A, up to 4.5GHz(P-Core) 3.3GHz (E-Core), 15W-55W
Memory	2 x DDR4-3200MHz SO-DIMM (Non-ECC) sockets, up to 64GB
TPM	TPM 2.0
BIOS	AMI

Internal I/O Port	
USB	2 x USB 3.2 Gen. 1 Type-A, 2 x USB 2.0 Type-A 2 x USB 2.0 via USB Type-A
Serial/Parallel	1 x RS-232(default)/422/485 select via BIOS, pin9 RI(default)/5V/12V select via jumper, DB9(COM1)
HDMI	1 x HDMI, 4096x2304@60Hz
LAN	1 x Intel I219LM, GbE LAN, RJ45 1 x Intel I210AT, GbE LAN, RJ45
Power	1 x 3-pin DC Power Input, Terminal Block / 1 x Power Button with Light

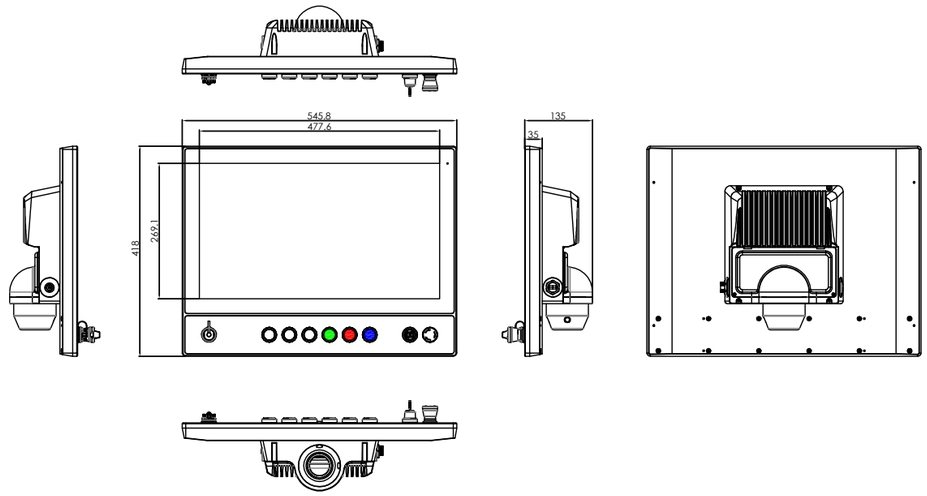
Front I/O and Buttons	
Emergency Button	1 x Emergency Button
Key Switch	1 x Key Switch (for option)
Push Button	Default: 1 x Blue(reset) / 1 x Red(stop) / 1 x Green(start)/ Optional: 3 x Black(self-defined)
USB Input	1 x USB 2.0 Type-A (water proof by Front) 1 x USB 2.0 Type-A (water proof by Rear)

Storage	
Storage	1 x M.2 M-Key 2280 for SSD (PCIe 3.0 x4) 1 x 2.5" HDD Bay

Display	
Display Type	21.5" TFT-LCD
Max. Resolution	1920 x 1080
Max. Color	16.7M
Luminance (cd/m^2)	250
View Angle	178(H) /178(V)
Contrast	1000:1
Backlight Lifetime	30,000 hrs

Touch Screen	
Type	Projected Capacitive Touch
Interface	USB
Light Transmission(%)	over 90%

Dimensions



UNIT: mm
Tolerance:±0.5

Power	
Power Input	DC 9~36V
Power Consumption	MAX: 90W

Mechanical	
Structure	Aluminum
Mounting	Swing Arm Mount (Default)/ Stand *support Rittal CP-40
IP Rating	IP65 via Using CP40 to Install Other Mounting Devices
Dimensions	545.8 x 418 x 135 mm
Net Weight	13.32 kg

Environmental	
Operating Temperature	0~50°C (ambient w/ air flow)
Storage Temperature	-30~70°C
Humidity	10 to 90% @ 40°C, non-condensing
Vibration	IEC 60068-2-64 1G/ 5~500Hz (Random)/ Operation
Shock	IEC 60068-2-27 15G Peak Acceleration (11 msec. Duration)/ Operation
Certificate	CE/FCC/UKCA

Optional Accessary	
Handles	Left-Right Handle
Holder	Keyboard Holder

Operating System Support
Windows 10 IoT LTSC, Windows 11 IoT, Ubuntu 22.04 (Linux Kernel 5.15)

Ordering Information	
ABOS-921DP	21.5" FHD IP65 Aluminum panel pc, Intel 113th/12th Gen. Core i3-1215U, 2 x DDR4 slot, 128GB TLC SSD/M.2 2280, projected capacitive touch, DC 9~36V power without Adapter *Button : 1 x Emergency button, 1 x Green button, 1 x Red button, 1 x Blue button, 1 x USB 2.0 (front)

V 1.3

All specifications and photos are subject to change without notice.
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Industrial Panel PC