



FEATURES

- 12.1" LED backlight display (1024x768 resolution)
- Intel® Alder Lake-U processor
- Front panel IP65
- Surface coating for AG/AF
- 5G module with antenna
- RS232/RS422/RS485 setting by BIOS
- Remote power switch
- Strong expandability for RS232 or CAN&DIO or POE
- DC 12~36V wide voltage input, support RVP/SCP/OVP/OC
- Modular design of the host and display for easy assembly and disassembly via socket connection

SPECIFICATIONS

System

CPU	Intel® Alder Lake-U processor
Memory	1 x SO-DIMM, DDR5 4800MHz, Max. 32GB
Storage	1 x M.2 M Key 2242/2280 (NVMe), 1 x 2.5" SATA3.0
Display	1 x HDMI 1.4b, 1 x DP 1.2 (only for non-clip cables)
USB	4 x USB3.2 Gen1 Type-A
COM	2 x RS232/RS422/RS485 (setting by BIOS)
LAN	3 x 10/100/1000/2500Mbps RJ-45 (Intel I226-V), 1 x 10/100/1000Mbps RJ-45 (Intel I210-AT)
Expansion	1 x M.2 E Key 2230 (for WiFi & Bluetooth), 1 x M.2 B Key 3042/3052 (for 4G/5G)
TPM	TPM 2.0
Watchdog	1~255 levels programmable

LCD

Display Type	12.1" XGA
Max. Resolution	1024x768
Luminance	500nits
Contrast Ration	1200:1
Viewing Angle	88 (L), 88 (R), 88 (U), 88 (D)
Backlight Lifetime	50000hrs

Touch Screen

Touch Type	Multi-touch projected capacitive
Light Transmission	≥ 81%

OS

OS Support	Windows10, Windows11, Linux
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Power

Input Voltage	DC 12~36V
Power Consumption	52.90W

Mechanical

Dimensions	298.5x237.5x79.0mm (11.8x9.4x3.1in)
Cutout Dimensions	286.5x225.5mm (11.3x8.9in)
Net Weight	4.15kg (9.15lb)

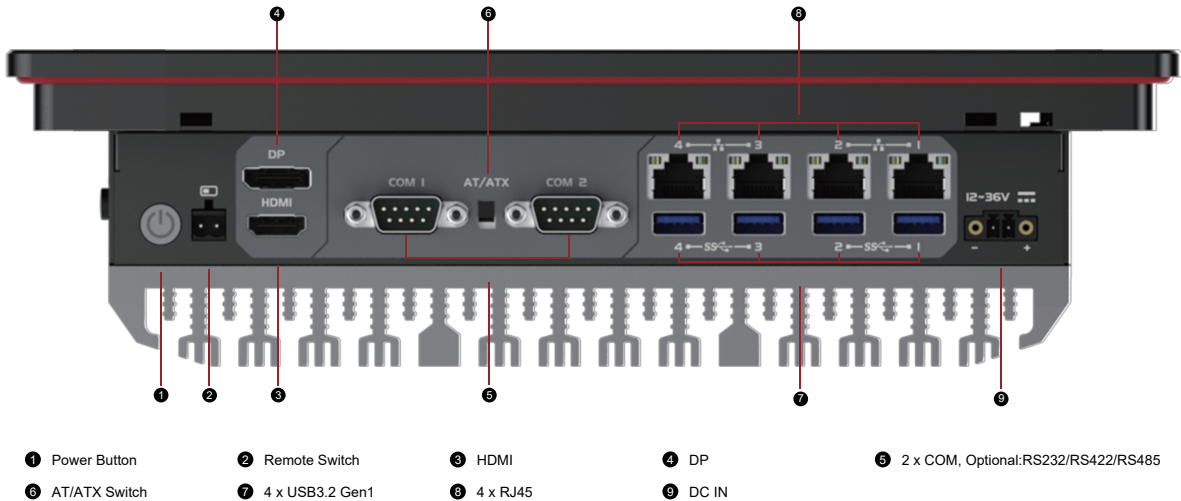
Environment

Operating Temperature	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)
Relative Humidity	5%~95% @40°C (non-condensing)
IP Rating	Front panel IP65
Vibration	Operating random vibration test 5~500Hz, 1.5Grms @with SSD, follows IEC 60068-2-64
Shock	Operating 15G peak acceleration (11ms duration), follows IEC 60068-2-27
EMC	CE/FCC Class A

OPTIONS

System		Expansion	
CPU	i3-1215U, 6 cores, base frequency 1.2GHz, TDP 15W i5-1235U, 10 cores, base frequency 1.3GHz, TDP 15W i7-1255U, 10 cores, base frequency 1.7GHz, TDP 15W	Expansion Card 1	2 x Iso.RS232 COM, DB9 connector 2 x CAN, 4 x Iso.DI, 4 x Iso.DO
Memory	DDR5 memory, support 8GB, 16GB, 32GB	Expansion Card 2	4 x POE+, support 802.3at
Storage	M.2 SSD, support 128GB, 256GB, 512GB, 1TB, 2TB 2.5" SATA3.0, support 128GB, 256GB, 512GB, 1TB, 2TB		
Communications			
4G/5G	4G/5G module with antenna		
WiFi & Bluetooth	WiFi & Bluetooth module with antenna		

I/O LAYOUT



PRODUCT DIMENSIONS

