

WPC-185WDC-12th

12th Gen Intel® Alder Lake Core™
i3-1215U / i5-1235U processor



Features

- Industrial-grade 18.5" FHD LCD panel with 50k backlight lifetime
- Optical bonding PCAP multipoint touch screen
- 12th Gen Intel® Alder Lake Core™ i3 / i5 processor
- 2 x DDR5 SDRAM, max.64GB, 1 x M.2 2280 NVMe or SATA SSD
- M12 I/O ports: 2 x LAN / 2 x USB / 1 x COM
- Full device IP66/IP69K with Stainless Steel SUS304/316 construction
- Support TPM2.0 hardware security
- Wide Operating Temperature -20°C to 70°C
- 9V to 36V DC Wide Range Power Input, Supporting OVP / OCP / RPP

Specifications

System		
CPU	12th Gen Intel® Alder Lake Core™ i3-1215U 1.2GHz	12th Gen Intel® Alder Lake Core™ i5-1235U 1.3GHz
L2 Cache	10MB	12MB
TDP	15W	15W
Graphics	Intel® UHD Graphics	Intel® Iris® Xe Graphics
System Chipset	Integrated With Intel® SoC	
Memory	2 x DDR5 4800 MHz 8GB, Up to 64GB	
Harddisk	1 x M.2 128G SSD (250G / 500G / 2TB SSD)	
Network	Intel® 226-V GbE LAN	
Audio	Realtek ALC897 Audio controller	
TPM	TPM 2.0	
Watchdog Timer	Software Programmable Supports 1~255 sec. System Reset	
Operation System	Windows 10 / 11, Linux, Ubuntu	
I/O		
VIDEO	1 x H-DMI (Optional)	
Ethernet	2 x M12 Waterproof Giga LAN RJ45 Connector	
USB	2 x M12 Waterproof Connector For USB2.0	
COM	1 x M12 Waterproof Connector For COM	
Wireless Network	Optional (WiFi / Bluetooth / 4G / 5G)	
Other I/O Interface	1 x Power Switch	
Expansion		
M.2	1*M.2 (Key-E, 2230, PCIe+USB, Wifi+BT)	
	1*M.2 (Key-B, 3042/3052, PCIe/ USB 3.0+USB2.0, 4G/5G)	
	1*M.2 (Key-M, 2280, NVMe / SATA, SSD)	
SIM Socket	1x SIM Socket	
Display		
LCD Size	18.5" (16:9)	
Resolution	1920 x 1080 (FHD)	
Brightness (cd/m²)	350 cd/m²	
Contrast Ratio	1200:1	
Backlight MTBF	50000 Hr (min.)	
Viewing Angle	85 / 85 / 85 / 85 (CR≥10) (L / R / U / D)	
Touch screen		
Touch Type	Optical bonding PCAP Touch	
Surface Hardness	≥7H	

We reserve the right to change specifications and product descriptions at any time without prior notice.

Power	
Power Input	1 x M12 Waterproof Connector For 9V~36V DC
Power Mode	Support AT, ATX Mode
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) RPP (Reverse Polarity Protection)
Power Consumption	≤45W
Physical	
Material	Inox / SUS304 / SUS316 (Optional)
Mounting	Stand / Wall / VESA / Yoke
Dimension (W x H x D)	464 x 285 x 45 mm
Packing Size	500 x 180 x 450 mm
Weight (Net)	9.5 KG
Environment	
Operating Temperature	-20~70°C (-4~158°F)
Storage Temperature	-30~80°C (-22~176°F)
Relative Humidity	5%~95%@40°C, non-condensing
Vibration Protection	1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
IP Level	IP66 / IP69K
EMC	CE, FCC, Class A, ROHS

Dimension & I/O

I / O Definition:

A: Power Button	B: Breather Valve
C: LAN (optional)	D: LAN (optional)
E: USB (optional)	F: USB (optional)
G: COM (optional)	H: DC 9V~36V

Product Dimensions: 464 x 284.6 x 45 mm (18.27 x 11.2 x 1.77 in)

Ordering info

Available models	Description
WPC-30185WDC	18.5" Fanless Stainless Steel HMI 12th Gen Intel® Alder Lake Core™ i3-1215U 1.2GHz Processor With Capcice touch
WPC-50185WDC	18.5" Fanless Stainless Steel HMI 12th Gen Intel® Alder Lake Core™ i5-1235U 1.3GHz Processor With Capcice touch

Packing list

1 x Standard product
1 x 60W PSU (Power Supply)
2 x M12 Waterproof LAN Cable 2M
2 x M12 Waterproof USB Cable 2M
1 x M12 Waterproof COM Cable 2M
1 x Waterproof HDMI Cable 2M (optional)