



## 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 / i7 processor
- 2 x DDR5 SDRAM, max.64GB, 1 x M.2 2280, NVMe or SATA SSD
- SP13 I/O ports: 2 x LAN / 2 x USB / 1 x COM
- Full device IP66/IP69K with Strong aluminum alloy casing
- 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® Core™ i3-1215U	12th Gen Intel® Core™ i5-1235U	12th Gen Intel® Core™ i7-1255U
L2 Cache	10MB	12MB	12MB
TDP	15W	15W	15W
Graphics	Intel® UHD Graphics	Intel® Iris® Xe 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 120G 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 SP13 Waterproof Giga LAN RJ45 Connector		
USB	2 x SP13 Waterproof Connector For USB2.0		
COM	1 x SP13 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/m <sup>2</sup> )	350 cd/m <sup>2</sup>		
Contrast Ratio	1200:1		
Backlight MTBF	50,000 hrs ( LED Backlight )		
Viewing Angle	85 / 85 / 85 / 85 (CR≥10) ( L / R / U / D )		
Touch screen			
Touch Type	Optical bonding PCAP Touch		
Surface Hardness	≥7H		

Power	
Power Input	1 x SP13 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	Aluminum Alloy Shell
Mounting	Stand / Wall / VESA
Dimension (W x H x D)	464 x 285 x 45 mm
Packing Size	500 x 180 x 450 mm
Weight (Net)	7.5 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

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

**I / O Definition:**

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

## Ordering info

Available models	Description
WPC-3185WAC	Fanless Waterproof Industrial PC 12th Gen Intel® Alder Lake Core™ i3-1215U 1.2GHz Processor With Capcice touch
WPC-5185WAC	Fanless Waterproof Industrial PC 12th Gen Intel® Alder Lake Core™ i5-1235U 1.3GHz Processor With Capcice touch
WPC-7185WAC	Fanless Waterproof Industrial PC 12th Gen Intel® Alder Lake Core™ i7-1255U 1.7GHz Processor With Capcice touch

## Packing list

1 x Standard product
1 x 60W PSU (Power Supply)
2 x SP13 Waterproof USB Cable 2M
1 x SP13 Waterproof COM Cable 2M
2 x SP13 Waterproof LAN Cable 2M