



Features

- Industrial-grade 12.1" WXGA LCD panel with 50k backlight lifetime
- Optical bonding PCAP multipoint touch screen
- Intel® Alder Lake-N N97 Quad-core 2.0GHz processor
- 1 x DDR5 SDRAM, max.32GB, 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	Intel® Alder Lake-N N97 Quad-core 2.0GHz , TDP 12W
L2 Cache	2.0MB
System Chipset	Integrated with Intel® SoC
Memory	1 x DDR5L 4800MHz 4GB, MAX 32GB
Harddisk	1 x M.2 120G SSD (250G / 500G / 2TB SSD)
Graphics	Intel® UHD Graphics
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	12.1" (16:10)
Resolution	1280 x 800
Brightness (cd/m ²)	400 cd/m ²
Contrast Ratio	1000:1
Backlight MTBF	50000 hrs
Viewing Angle	89 / 89 / 89 / 89 (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)	312 x 214 x 40 mm
Packing Size	450 x 170 x 350 mm
Weight (Net)	3.5 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 Switch	B: Airflow valve
C: USB (optional)	D: USB (optional)
E: LAN (optional)	F: COM (optional)
G: DC 9V~36V	

Product Dimensions: 312 x 214 x 40 mm (12.28 x 8.43 x 1.57 in)

Ordering info

Available models	Description
WPC-N012WAC	12.1" Fanless Waterproof Industrial PC Intel® Alder Lake-N N97 2.0GHz 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