



## Features

- Industrial-grade 23.8" FHD LCD panel with 30k backlight lifetime
- Optical bonding PCAP multipoint touch screen
- IP66 grade stainless steel SUS304 front panel
- 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
- 3 x Intel® 226-V 2.5GbE Ethernet, support WoL and PXE
- 2 x RS232/422/485, RS485 support automatic flow control
- Support TPM2.0 hardware security
- Supports embedded / VESA 100mm x 100mm mounting holes
- 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	2.0 MB
System Chipset	Integrated with Intel® SoC
Memory	1 x DDR5L 4800MHz 8GB, MAX 32GB
Harddisk	1 x M.2 120G SSD ( 250G / 500G / 2TB SSD) / 1 x 2.5" SATA
Graphics	Intel® UHD Graphics
Network	Intel® 226-V GbE LAN
Audio	Realtek ACL897 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
Ethernet	3 x LAN (10/100/1000/2500 Mbps)
USB	4 x USB 3.0
COM	2 x RS-232 / 422 / 485 ( Adjustable through BIOS )
Audio	1x Audio_out & Mic_in
Wireless Network	Optional (WiFi / Bluetooth / 4G / 5G )
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, SATA / SSD )
SIM Socket	1x SIM Socket
Display	
LCD Size	23.8" ( 16:9 )
Resolution	1920 x 1080 ( FHD )
Brightness (cd/m <sup>2</sup> )	350 cd/m <sup>2</sup>
Contrast Ratio	1000:1
Backlight MTBF	30000 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 Adapter	1 x Optional AC/DC 12V/5A , 60W
Power Mode	Support AT, ATX Mode
Power Input	2-Pin Terminal Block Connector with Power Input 9~36VDC
Power Protection	OVP (Over Voltage Protection)   OCP (Over Current Protection)   RPP (Reverse Polarity Protection)
Power Consumption	≤35W
Physical	
Material	SUS 304 Panel + SECC
Mounting	Stand / Wall / VESA / Panel
Dimension (W x H x D)	585 x 354.5 x 63 mm
Cut-out Size	568 x 337 mm
Packing Size	730 x 200 x 530 mm
Weight (Net)	6 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	Front Panel IP66
EMC	CE, FCC, KC, Class A, ROHS , IEC / EN 62368-1

### Dimension & I/O

**I / O Definition:**

A: DC 9V~36V	B: COM1:RS-232 / 422 / 485
C: COM2:RS-232 / 422 / 485	D: 2 x LAN
E: H-DMI	F: 2 x USB 3.0
G: 1 x LAN	H: 2 x USB 3.0
I: Audio	J: Power Button

**Panel Cutout Dimensions: 568 x 337 mm (22.36 x 13.27 in )**

### Ordering info

Available models	Description
PPC-C024WCC	23.8" Fanless Industrial Panel PC Intel® Elkhart Lake Celeron J6412 2.0GHz Processor With Capcice touch
PPC-X024WCC	23.8" Fanless Industrial Panel PC Intel® Elkhart Lake Atom X6425E 2.0GHz Processor With Capcice touch
PPC-N024WCC	23.8" Fanless Industrial Panel PC Intel® Alder Lake-N N97 2.0GHz Processor With Capcice touch

### Packing list

1 x Standard product
1 x 60W PSU (Power Supply)
1 x Power cable & plug
10 x Panel mount metal clips