



## Features

- Industrial-grade 23.8" FHD LCD panel with 30k backlight lifetime
- True-flat touchscreen with multi-touch projected capacitive control
- IP66 grade aluminum alloy front panel
- 8th / 10th Gen Intel® Whiskey Lake Core™ i3 / i5 / i7 Processor
- 2 x DDR4 SDRAM, max.64GB, 1 x M.2 2280 / 1 x mSATA SSD
- 2 x Intel® 211 1GbE 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	8th Gen Intel® Core™ i3-8145U	10th Gen Intel® Core™ i5-10210U	8th Gen Intel® Core™ i7-8565U
L3 Cache	4MB	6MB	8MB
TDP	25W	25W	25W
System Chipset	Integrated with Intel® SoC		
Memory	2 x DDR4L 2400MHz 4GB, Up to 64GB		
Harddisk	1 x M.2 120G SSD ( 250G / 500G / 2TB SSD) / 1 x mSATA		
Graphics	Intel HD Graphics 620		
Network	Intel® I211-AT 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	2 x LAN ( 10/100/1000 Mbps )		
USB	3 x USB 3.0 / 1 x USB 2.0		
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 )		
SIM Socket	1x SIM Socket		
Display			
LCD Size	23.8" ( 16:9 )		
Resolution	1920 x 1080 ( FHD )		
Brightness (cd/m <sup>2</sup> )	350		
Contrast Ratio	1000:1		
Backlight MTBF	30000 hrs		
Viewing Angle	89 / 89 / 89 / 89 (CR≥10) ( L / R / U / D )		
Touch screen			
Touch Type	10 point PCAP		
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 Protectio
Power Consumption	≤45W
Physical	
Material	Aluminum alloy panel, anodized treatment
Mounting	Stand / Wall / VESA / Panel
Dimension (W x H x D )	585 x 354.5 x 65 mm
Cut-out Size	568 x 337 mm
Packing Size	730 x 200 x 530 mm
Weight (Net)	6.5 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	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: 1 x USB 3.0 / 1 x USB 2.0
G: 2 x USB 3.0	H: Audio
I: Extension Switch	J: Power Button

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

### Ordering info

Available models	Description
PPC-3024WAC	23.8" Fanless Industrial Panel PC 8th Gen Intel® Whiskey Lake Core™ i3-8145U 2.1GHz Processor With Capcice touch
PPC-5024WAC	23.8" Fanless Industrial Panel PC 10th Gen Intel® Comet Lake Core™ i5-10210U 1.6GHz Processor With Capcice touch
PPC-7024WAC	23.8" Fanless Industrial Panel PC 8th Gen Intel® Whiskey Lake Core™ i7-8565U 1.8GHz Processor With Capcice touch

### Packing list

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