PPC-12SAC

8th / 10th Gen Intel® Alder Lake Core™
i3-8145U / i5-10210U / i7-8565U processor





Features

- Industrial-grade 12.1" XGA LCD panel with 50k backlight lifetime
- Optical bonding PCAP multipoint touch screen
- 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

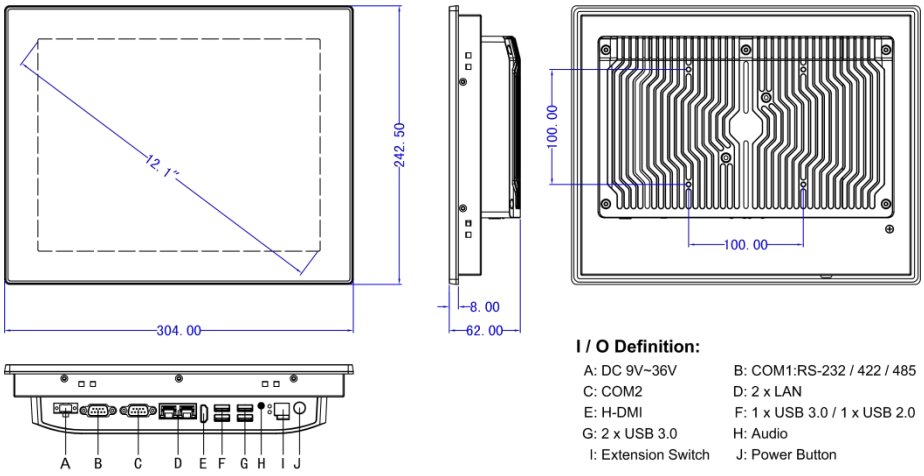
Specifications

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	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	12.1" (4:3)		
Resolution	1024 x 768		
Brightness (cd/m²)	500		
Contrast Ratio	1200:1		
Backlight MTBF	50000 hrs		
Viewing Angle	88 / 88 / 88 / 88 (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 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)	304 x 243 x 62 mm
Cut-out Size	290 x 229 mm
Packing Size	450 x 170 x 350 mm
Weight (Net)	2.9 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	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: 290 x 229 mm (11.42 x 9.0 in)

Ordering info

Available models	Description
PPC-3012SAC	12.1" Fanless Industrial Panel PC 8th Gen Intel® Whiskey Lake Core™ i3-8145U 2.1GHz Processor With Capcice touch
PPC-5012SAC	12.1" Fanless Industrial Panel PC 10th Gen Intel® Comet Lake Core™ i5-10210U 1.6GHz Processor With Capcice touch
PPC-7012SAC	12.1" 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 60W PSU (Power Supply)
1 x Power cable & plug
8 x Panel mount metal clips

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