



## Features

- Industrial-grade 12.1" XGA LCD panel with 50k backlight lifetime
- High precision 5-wires resistive touch, EETI controller
- Intel® Celeron® J6412 quad-core 2.0 GHz processor
- 1 x DDR4 SDRAM, max.32GB, 1 x M.2 2280 / 1 x 2.5" SATA SSD
- M12 I/O ports: 2 x LAN / 2 x USB / 1 x COM
- Full device IP67 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® Elkhart Lake Celeron J6412 Quad-core 2.0GHz
L2 Cache	1.5MB
TDP	10W
System Chipset	Integrated with Intel® SoC
Memory	1 x DDR4L 3200MHz 4GB, MAX 32GB
Harddisk	1 x M.2 120G SSD ( 250G / 500G / 2TB SSD) / 1 x 2.5" SATA
Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors
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 M12 Waterproof Giga LAN RJ45 Connector
USB	2 x M12 Waterproof Connector For USB2.0
COM	1 x M12 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" ( 4:3 )
Resolution	800 x 600 / 1024 x 768 ( Optional )
Brightness (cd/m <sup>2</sup> )	500 cd/m <sup>2</sup>
Contrast Ratio	1200:1
Backlight MTBF	50000 hrs
Viewing Angle	88 / 88 / 88 / 88 (CR≥10) ( L / R / U / D )
Touch screen	
Touch Type	5 wire Resistive touch
Surface Hardness	≥3H

Power	
Power Input	1 x M12 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)	311 x 241 x 42 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	IP67 / IP69K
EMC	CE, FCC, Class A, ROHS

## Dimension & I/O

**Panel Cutout Dimensions: 310 x 241 x 42 mm (12.20 x 9.48 x 1.65 in)**

**Interface Definition:**

A: Power Switch	B: Airflow valve
C: USB (optional)	D: USB (optional)
E: LAN (optional)	F: LAN (optional)
G: COM (optional)	H: DC 9V~36V

## Ordering info

Available models	Description
WPC-C012SAR-M12	12.1" Fanless Waterproof Industrial PC Intel® Celeron J6412 2.0GHz Processor With Capcice touch

## Packing list

1 x Standard product
1 x 60W PSU (Power Supply)
2 x M12 Waterproof USB Cable 2M
1 x M12 Waterproof COM Cable 2M
2 x M12 Waterproof LAN Cable 2M
1 x CD-ROM