



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
- SP13 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 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" (4:3) |
| Resolution | 800 x 600 / 1024 x 768 (Optional) |
| Brightness (cd/m ²) | 500 cd/m ² |
| 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 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) | 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

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 | |

Panel Cutout Dimensions: 310.5 x 241 x 42 mm (12.22 x 9.48 x 1.65 in)

Ordering info

| Available models | Description |
|------------------|---|
| WPC-C012SAR | 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 SP13 Waterproof USB Cable 2M |
| 1 x SP13 Waterproof COM Cable 2M |
| 2 x SP13 Waterproof LAN Cable 2M |
| 1 x CD-ROM |