



## Features

- Industrial-grade 18.5" FHD LCD panel with 50k backlight lifetime
- Optical bonding PCAP multipoint touch screen
- Intel® Celeron® J6412 quad-core 2.0 GHz processor
- 1 x DDR4 SDRAM, max.32GB, 1 x M.2 2280 ( NVMe or SATA ) SSD
- M12 I/O ports: 2 x LAN / 2 x USB / 1 x COM
- Full device IP66/IP69K with Stainless Steel SUS304/316 construction
- 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 , TDP 10W |
| L2 Cache                        | 1.5MB  |
| System Chipset                  | Integrated with Intel® SoC                                   |
| Memory                          | DDR4L 3200MHz 4GB, MAX 32GB                                  |
| Harddisk                        | 1 x M.2 120G SSD ( 250G / 500G / 2TB SSD)                    |
| Graphics                        | Intel® UHD Graphics for 10th Gen Intel® Processors           |
| Network                         | Intel® 226-V GbE LAN   |
| Audio                           | Realtek ACL897 Audio controller                              |
| TPM                             | TPM 2.0  |
| 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                        | 18.5" ( 16:9 )   |
| Resolution                      | 1920 x 1080 ( FHD )  |
| Brightness (cd/m <sup>2</sup> ) | 350 cd/m <sup>2</sup>  |
| Contrast Ratio                  | 1200:1   |
| Backlight MTBF                  | 50000 Hr (min.)  |
| Viewing Angle                   | 85 / 85 / 85 / 85 (CR≥10) ( L / R / U / D )                  |
| Touch screen                    |  |
| Touch Type                      | Optical bonding PCAP Touch                                   |
| Surface Hardness                | ≥7H  |

| Power                 |   |
|-----------------------|---|
| Power Input           | 1 x M12 Waterproof Connector For 9V~36V DC  |
| Power Protection      | OVP (Over Voltage Protection)   OCP (Over Current Protection)   RPP (Reverse Polarity Protection) |
| Power Consumption     | ≤35W  |
| Physical              |   |
| Material              | Inox / SUS304 / SUS316 ( Optional )   |
| Mounting              | Stand / Wall / VESA / Yoke  |
| Dimension (W x H x D) | 464 x 285 x 45 mm   |
| Packing Size          | 500 x 180 x 450 mm  |
| Weight (Net)          | 8.8 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              | IP66 / IP69K  |
| EMC                   | CE, FCC, Class A, ROHS  |

## Dimension & I/O

**I / O Definition:**

|                     |                     |
|---------------------|---------------------|
| A: Power Button     | B: Breather Valve   |
| C: COM ( optional ) | D: USB ( optional ) |
| E: USB ( optional ) | F: LAN ( optional ) |
| G: LAN ( optional ) | H: DC 9V~36V        |

**Product Dimensions: 464 x 284.6 x 45 mm (18.27 x 11.2 x 1.77 in)**

## Ordering info

| Available models | Description  |
|------------------|--|
| WPC-C185WDC      | 18.5" Fanless Stainless Steel HMI 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 LAN Cable 2M |
| 2 x M12 Waterproof USB Cable 2M |
| 1 x M12 Waterproof COM Cable 2M |