

# PPC-185WRC-12th

12th Generation Intel® Core™  
i3-1215U / i5-1235U / i7-1255U processor



## Features

- Industrial-grade 18.5" FHD LCD panel with 50k backlight lifetime
- True-flat touchscreen with multi-touch projected capacitive control
- IP66 grade aluminum alloy front panel
- 12th Gen Intel® Whiskey Lake Core™ i3 / i5 / i7 Processor
- 2 x DDR5 SDRAM, max.64GB, 2 x M.2 2280 NVMe or SATA SSD
- 2 x Intel® 226-V 2.5GbE, 1 x Intel® 219 1GbE Ethernet, WoL and PXE
- 2 x RS232/422/485, RS485 support automatic flow control
- Supports TPM2.0 security encryption and Intel vPro® Essentials
- Supports 19 inch Rack mount / VESA 100mm x 100mm mounting holes
- 9V to 36V DC Wide Range Power Input, Supporting OVP / OCP / RPP

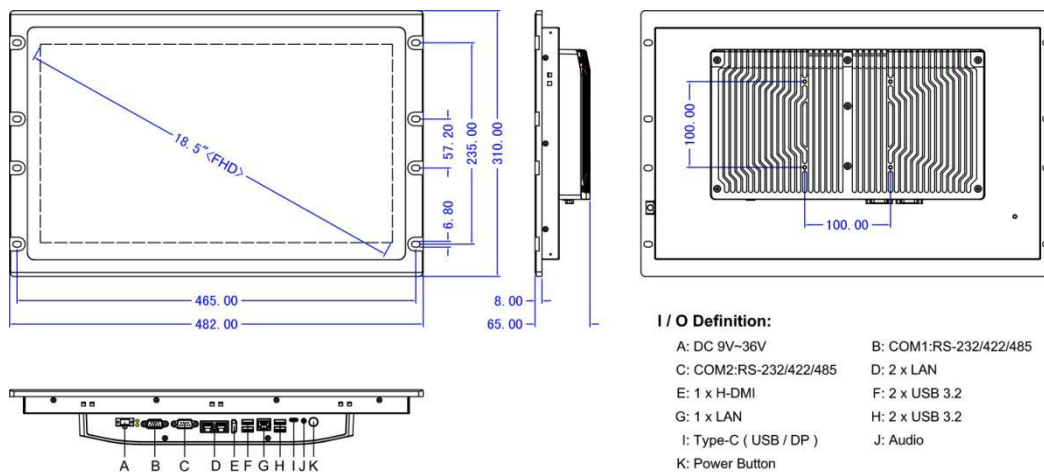
## Specifications

| System             |                                                         |                                |                                |
|--------------------|---------------------------------------------------------|--------------------------------|--------------------------------|
| CPU                | 12th Gen Intel® Core™ i3-1215U                          | 12th Gen Intel® Core™ i5-1235U | 12th Gen Intel® Core™ i7-1255U |
| L3 Cache           | 10MB                                                    | 12MB                           | 12MB                           |
| TDP                | 15W                                                     | 15W                            | 15W                            |
| Graphics           | Intel® UHD Graphics                                     | Intel® Iris® Xe Graphics       | Intel® Iris® Xe Graphics       |
| System Chipset     | Integrated With Intel® SoC                              |                                |                                |
| Memory             | 2 x DDR5 4800MHz 8GB, Up to 64GB                        |                                |                                |
| Harddisk           | 2 x M.2 120G SSD ( 250G / 500G / 2TB SSD)               |                                |                                |
| Network            | 2 x Intel® I226, 2.5GbE / 1 x Intel® I219, 1GbE         |                                |                                |
| Audio              | Realtek ALC897 Audio controller                         |                                |                                |
| TPM                | TPM 2.0                                                 |                                |                                |
| Watchdog Timer     | 255 Timer Levels, Set up by Software                    |                                |                                |
| Operation System   | Windows 10 / 11, Linux, Ubuntu                          |                                |                                |
| I / O              |                                                         |                                |                                |
| VIDEO              | 1 x H-DMI                                               |                                |                                |
| Ethernet           | 3 x RJ45                                                |                                |                                |
| USB                | 4 x USB 3.2 / 1 x Type-C x 1 ( USB 3.0 Gen 2, DP 1.4 )  |                                |                                |
| 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 ) |                                |                                |
|                    | 2*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/m²) | 350 cd/m2                                               |                                |                                |
| Contrast Ratio     | 1200:1                                                  |                                |                                |
| Backlight MTBF     | 50,000 hrs ( LED Backlight )                            |                                |                                |
| Viewing Angle      | 85 / 85 / 85 / 85 (CR≥10) ( L / R / U / D )             |                                |                                |
| Touch screen       |                                                         |                                |                                |
| Touch Type         | Projected Capacitive Multi-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           | 9~36VDC , 2-Pin Terminal Block Connector with Power Input                                         |
| Power Protection      | OVP (Over Voltage Protection)   OCP (Over Current Protection)   RPP (Reverse Polarity Protection) |
| Power Consumption     | ≤45W                                                                                              |
| Physical              |                                                                                                   |
| Material              | Aluminum alloy panel, anodized treatment                                                          |
| Mounting              | 19.0-inch Rack Mount / Stand / Wall / VESA / Panel                                                |
| Dimension (W x H x D) | 482 x 310 x 65 mm                                                                                 |
| Height                | 7U                                                                                                |
| Packing Size          | 650 x 190 x 490 mm                                                                                |
| Weight (Net)          | 5.7 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, UL, KC , Class A, ROHS , IEC, EN 62368-1                                                 |

## Dimension & I/O



Panel Cutout Dimensions: 452 x 273 mm (17.80 x 10.75 in )

## Ordering info

| Available models | Description                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------|
| PPC-3185WRC      | 18.5" Fanless Industrial Panel PC 12th Generation Intel® Core™ i3-1215U 1.2GHz Processor With Capcice touch |
| PPC-5185WRC      | 18.5" Fanless Industrial Panel PC 12th Generation Intel® Core™ i5-1235U 1.3GHz Processor With Capcice touch |
| PPC-7185WRC      | 18.5" Fanless Industrial Panel PC 12th Generation Intel® Core™ i7-1255U 1.7GHz 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 |