

# PPC-S2112PW/RW

## 21.5" Front Panel IP66 Stainless Steel Panel PC with Intel® Core™ i5-1235U Processor

### Applications

- HMI for Factory Automation
- Embedded Panel PC on the chassis
- CNC machine
- Food & Beverage Industry
- Semi-outdoor Application

### Features

- 21.5" 1920 x 1080 Resolution, 250nits Panel
- Intel® Core™ i5-1235U onboard Processor
- True Flat, Easy-to-clean Front Panel Design
- 304 Stainless Steel Front Panel (Optional 316) + SECC Back Cover
- IP66 Rated Front Panel
- Support Projected Capacitive and Resistive Touchscreen
- Support VESA and Panel Mounting

### Ordering Information

| Part No.    | Description                                                                                                                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPC-S2112PW | 21.5" 16:9 (1920 x 1080) FHD, 250nits, P-CAP Touch, Front SUS304 + Back SECC, Intel® Core™ i5-1235U, 2 x 2.5GbE, 2 x HDMI, 1 x RS232/422/485, 4 x USB3.2, 9~36VDC (2-pin Terminal Block)            |
| PPC-S2112RW | 21.5" 16:9 (1920 x 1080) FHD, 250nits, 5-wire Resistive Touch, Front SUS304 + Back SECC, Intel® Core™ i5-1235U, 2 x 2.5GbE, 2 x HDMI, 1 x RS232/422/485, 4 x USB3.2, 9~36VDC (2-pin Terminal Block) |

### Packing List

#### Description

1 x PPC-S2112PW/RW

### Optional Items

| Part No.               | Description                                                                  |
|------------------------|------------------------------------------------------------------------------|
| EA-PS-120W24VTB3x-0111 | Adapter AC/DC 24V 5A 120W with 2-pin Terminal Block Plug 5.0mm Pitch         |
| 27-x301000003-CA       | Power Cord, 3-pin US Type, 180 cm                                            |
| 27-x301010005-CA       | Power Cord, 3-pin EU Type, 180 cm                                            |
| AWD-TPM20              | TPM 2.0 Module                                                               |
| EA-AWD-4G003xxxxx-0011 | 4G (LTE) EG25-G + 2 Antennas, Full Size (for Global)                         |
| EA-AWD-WF003x01x1-0011 | Wi-Fi 802.11 a/b/g/n/ac/BT4.0 (2T2R) + 2 Antennas (Dual Band), Half Size     |
| EA-AWD-WFM2BT52TR-0011 | Wi-Fi 802.11 a/b/g/n/ac/BT5.0 (2T2R) + 2 Antennas (Dual Band), M.2 2230 Type |

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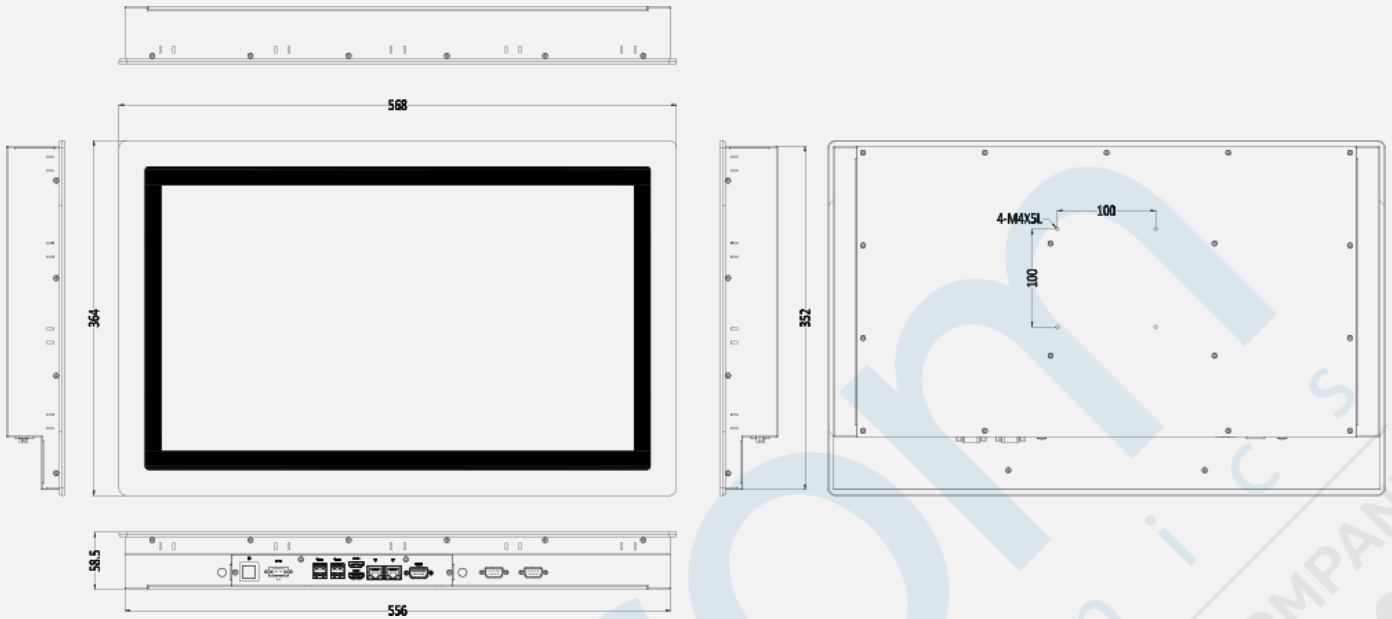
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## Specifications

| Model            |                        | PPC-S2112PW                                                        | PPC-S2112RW      |
|------------------|------------------------|--------------------------------------------------------------------|------------------|
| Processor System | CPU                    | Intel® Core™ i5-1235U Processor                                    |                  |
|                  | Frequency              | up to 4.40GHz                                                      |                  |
|                  | BIOS                   | UEFI                                                               |                  |
|                  | TPM                    | fTPM (Optional for dTPM)                                           |                  |
| Memory           | Technology             | Dual Channel DDR4 3200MHz (un-buffered and non-ECC)                |                  |
|                  | Max. Capacity          | Support up to 64GB                                                 |                  |
|                  | Type                   | 2 x 260-pin SO-DIMM                                                |                  |
| Panel            | Panel Type             | 21.5" FHD LCD                                                      |                  |
|                  | Aspect Ratio           | 16:9                                                               |                  |
|                  | Resolution             | 1920 x 1080                                                        |                  |
|                  | Brightness             | 250cd/m <sup>2</sup>                                               |                  |
|                  | Color                  | 16.7M                                                              |                  |
|                  | Contrast Ratio         | 5000:1                                                             |                  |
|                  | Viewing Angle          | 178 (H) x 178 (V)                                                  |                  |
|                  | Backlight MTBF (typ.)  | 30,000Hrs                                                          |                  |
| Touchscreen      | Touchscreen Type       | Projected Capacitive (P-CAP)                                       | 5-wire Resistive |
|                  | Surface Hardness       | 7Mohs                                                              | 3Mohs            |
|                  | Transparency           | 90% (±3%)                                                          | 80% (±3%)        |
| I/O Interface    | Ethernet               | 2 x 2.5GbE LAN Ports (Intel® I226-V)                               |                  |
|                  | HDMI                   | 2 x HDMI 2.0, Max Resolution 4096 x 2160                           |                  |
|                  | Serial Port            | 1 x RS232/422/485 (Optional for additional 2 x RS232/422/485)      |                  |
|                  | USB                    | 4 x USB3.2 Gen2                                                    |                  |
|                  | Audio                  | N/A                                                                |                  |
| Storage          | 2.5" SSD/HDD           | Internal 1 x 2.5" SSD/HDD                                          |                  |
|                  | M.2                    | Internal 1 x M.2 2280 M-Key (PCIe Gen 4x4, SATA)                   |                  |
| Expansion        | Mini-PCIe              | 1 x Full-Size Mini-PCIe with SIM slot (PCIe, USB2.0 and SIM)       |                  |
|                  | M.2                    | 1 x M.2 2280 M-Key (PCIe Gen 4x4, SATA)<br>1 x M.2 2230 E-Key      |                  |
| Power            | Power Mode             | AT/ATX                                                             |                  |
|                  | Power Supply Voltage   | 9~36V DC Input                                                     |                  |
|                  | Power Connector Type   | 1 x DC Power Connector, 1 x 2-pin Terminal Block                   |                  |
| Environment      | Operating Temperature  | -20C ~ +60°C                                                       |                  |
|                  | Storage Temperature    | -30C ~ +70°C                                                       |                  |
|                  | Humidity               | 10% ~ 95%, Non-condensing                                          |                  |
|                  | Vibration              | 2.16Grms, 5 - 500Hz, 0.5hr/axis                                    |                  |
|                  | Shock                  | 20G, half sine, 11ms                                               |                  |
| General          | Certification          | CE/FCC Class A                                                     |                  |
|                  | Ingress Protection     | Front Panel IP66                                                   |                  |
|                  | Material               | 304 Stainless Steel Front Panel (316 for option) + SECC Back Cover |                  |
|                  | Mounting               | VESA (100 x 100mm) / Panel                                         |                  |
|                  | Dimensions (W x H x D) | 568 x 364 x 58.5mm                                                 |                  |
|                  | Net Weight             | 10kg                                                               |                  |
|                  | Operating System       | Windows 10 IoT, Windows 11 (IoT/Professional), Linux               |                  |

## Dimensions



## Viewing

