

# PPC2-CW185-ADLP

## iEi Heavy Industrial Panel PC

Powered by Intel® Alder Lake-P



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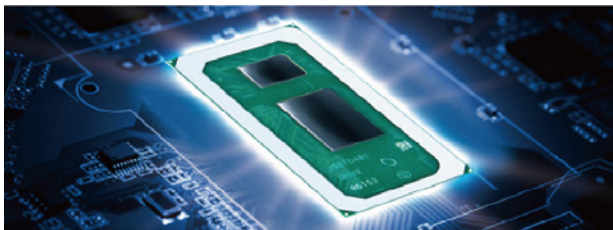
# PPC2-CW185-ADLP

Fanless panel PC with narrow bezel design, Intel® Alder Lake-P platform, on-board 8GB memory, HDMI output, dual 2.5GbE LAN, two RS-232, two RS-232/422/485, five USB, two M.2 M key expansion slots, and anti-glare & anti-UV 10-point touchscreen



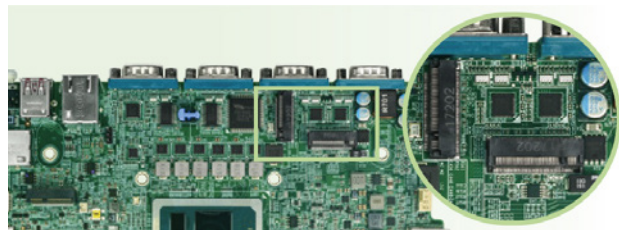
## 12th Gen Intel® Alder Lake-P Platform

Powered by 12th generation Intel® Alder Lake-P Series processors and asynchronous architecture, unleashing superior performance.



## Dual full-speed M.2 expansion slots

Two M.2 M keys support 2242 and 2280 size, PCIe Gen4 x 4 full speed signal, more bandwidth, faster speed.



## Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen can display clearly without reflection for a long time use in outdoors and bright light environment.



## Works with Gloves and Water

The equipped capacitive touch screen supports gloved operation and waterproof function that can effectively eliminate false touch operating caused by water spray.



## Extensive I/O Interfaces

The panel PC is small, but comes with abundant I/O for a variety of application scenarios. It includes four UART, five USB, two 2.5G network port and one HDMI interface.

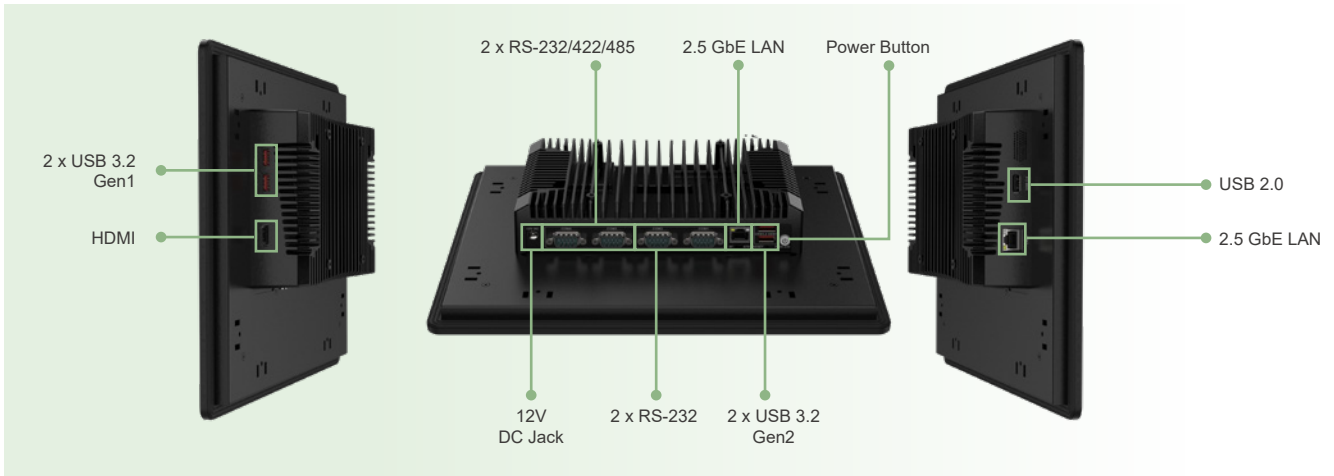


## IP65 rated front panel protection

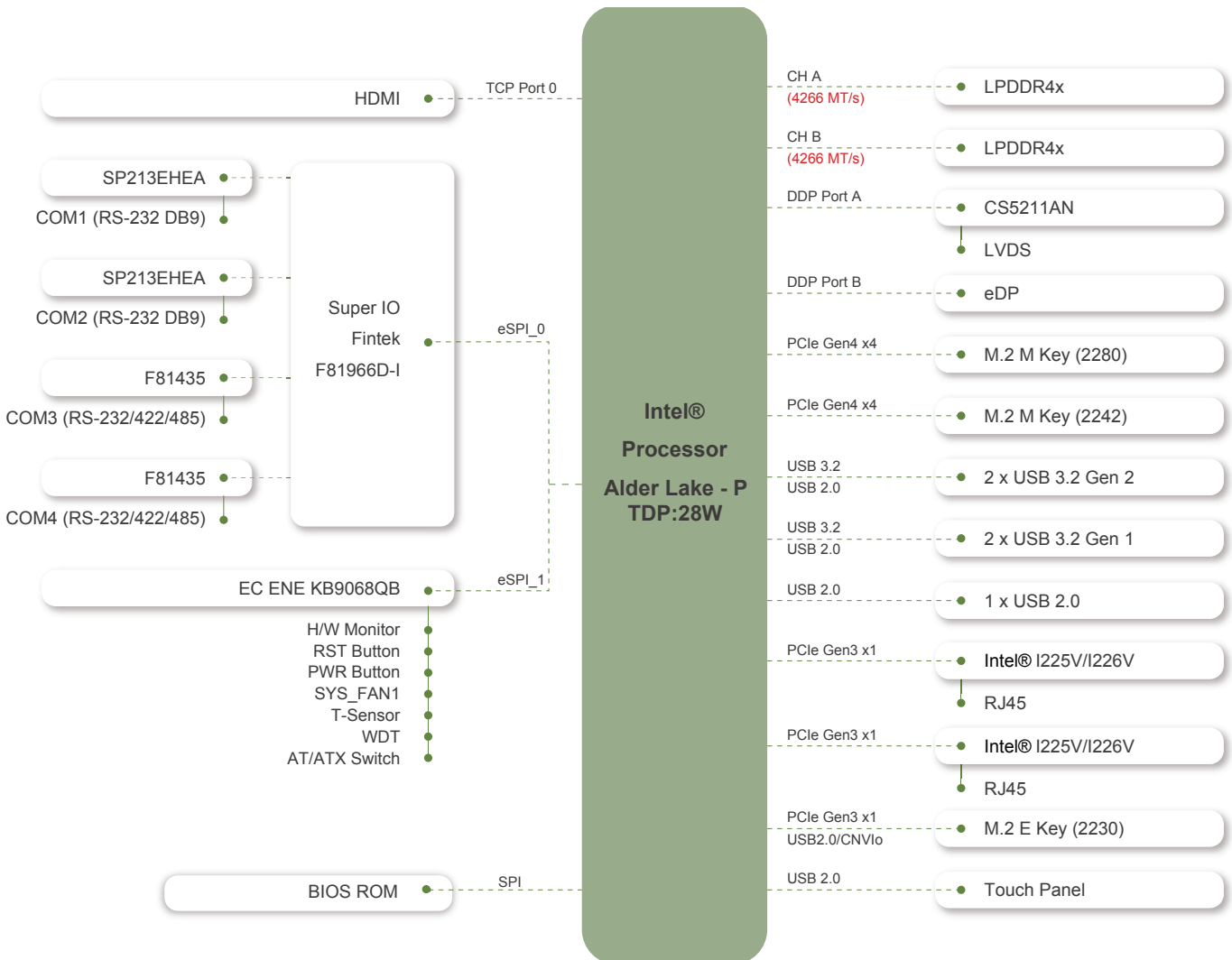
With the IP65 front panel protection rating, this series is more durable and rugged, ensuring reliable operation in harsh industrial environments.



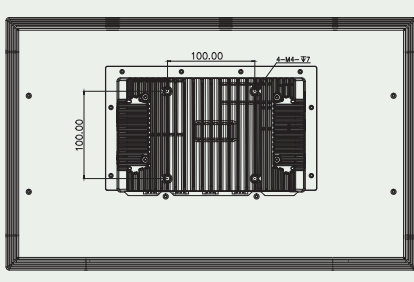
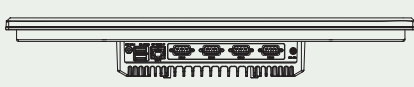
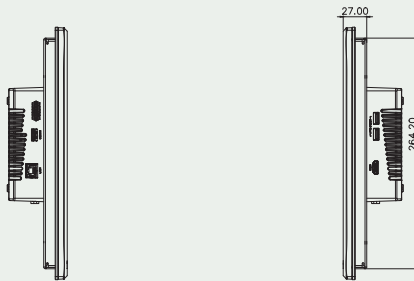
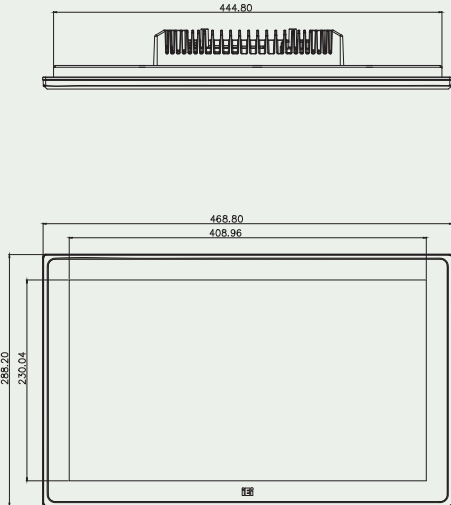
## Fully Integrated I/O



## Block Diagram



## Dimensions (Unit: mm)



## Specifications

| Model                                 | PPC2-CW185-ADLP  |   |   |
|---------------------------------------|--|---|---|
| LCD Display                           | 18.5" (16:9)   |   |   |
| Resolution                            | 1920 (W) x 1080 (H)  |   |   |
| Brightness                            | 350 cd/m <sup>2</sup>  |   |   |
| Contrast Ratio                        | 1000:1   |   |   |
| LCD Color                             | 16.7M  |   |   |
| Viewing Angle (H-V)                   | 170°/170°  |   |   |
| Backlight MTBF                        | 50000 hours  |   |   |
| CPU (SoC)                             | support 12th/13th Generation Intel® Alder Lake-P Core™ i7/i5/i3 Processor  |   |   |
| Memory                                | Dual channel On board LPDDR4x 8G (max 32GB)  |   |   |
| Touchscreen                           | PCAP with USB interface (anti-UV/AG coating)   |   |   |
| Touch Controller                      | Surface hardness: ≥7H<br>Projected capacitive type: EETI 80  |   |   |
| Ethernet                              | LAN1: Intel® I225V/I226V 2.5GbE controller<br>LAN2: Intel® I225-LM/I226-LM 2.5GbE controller (support Intel® AMT ) |   |   |
| Expansion                             | 1 x M.2 M key 2242 (PCIe Gen4 x4)<br>1 x M.2 M key 2280 (PCIe Gen4 x4)   |   |   |
| Mounting                              | VESA 100, Panel, Wall, Rack, Stand and Arm   |   |   |
| Construction Material                 | Aluminum front cover and sheet metal rear cover  |   |   |
| Enclosure Color                       | Silver+Black   |   |   |
| I/O Ports, Switch                     | 2 x RS-232 by DB9<br>2 x RS-232/422/485 by DB9<br>2 x 2.5GbE LAN<br>1 x Reset button                               | 1 x HDMI output<br>1 x 12V DC Jack<br>1 x Power button<br>1 x AT/ATX switch | 2 x USB 3.2 Gen2<br>2 x USB 3.2 Gen1<br>1 x USB 2.0 |
| Thermal Solution                      | Fanless  |   |   |
| Power Input                           | DC 12V   |   |   |
| Power Consumption                     | 12V@5.60A (Intel® Core i7-1270PE With 8GB LPDDR4 Memory)   |   |   |
| TPM                                   | Intel® Platform Trust Technology   |   |   |
| Watchdog Timer                        | Software Programmable support 1~255 sec. system reset  |   |   |
| Operating Temperature (with air flow) | -10°C ~ 50°C   |   |   |
| Storage Temperature                   | -20°C ~ 60°C   |   |   |
| Humidity                              | 10% ~ 95%@40°C, non-condensing   |   |   |
| IP Level                              | IP65 compliant front panel   |   |   |
| Safety and EMC                        | CE, FCC Class A, UKCA  |   |   |
| Operation Vibration                   | MIL-STD-810G 514.6C-1(with SSD)  |   |   |
| Operation Shock                       | Half-sine wave shock 5G; 11ms; 100 shocks per axis   |   |   |
| Dimensions (H x W )                   | 468.80 x 288.2 x 67.8 (mm)   |   |   |
| Net Weight                            | 5.05 kg  |   |   |
| ErP                                   | ErP 2009/125/EC  |   |   |
| OS                                    | Windows 10/11 IoT, Linux   |   |   |

## Ordering Information

|                           |   |
|---------------------------|---|
| PPC2-CW185-ADLP-i7/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 12th Generation Intel® Core™ i7-1260P on-board Processor,TDP 28W,8GB LPDDR4x on-board, PCAP touch,12V DC,R10 |
| PPC2-CW185-ADLP-i5/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 12th Generation Intel® Core™ i5-1240P on-board Processor,TDP 28W,8GB LPDDR4x on-board, PCAP touch,12V DC,R10 |
| PPC2-CW185-ADLP-i3/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 12th Generation Intel® Core™ i3-1220P on-board Processor,TDP 28W,8GB LPDDR4x on-board, PCAP touch,12V DC,R10 |

## Packing List

|              |                 |       |               |
|--------------|-----------------|-------|---------------|
| Power Cord*1 | Power Adapter*1 | QIG*1 | Thermal Pad*1 |
|--------------|-----------------|-------|---------------|

## Options

| Item  | Part No.      | Description            |
|-------|---------------|------------------------|
| Arm   | ARM-11-RS     | VESA 75/100 Desk Arm   |
| Stand | STAND-C12-R10 | VESA 75/100 Easy Stand |
| Wall  | AFLWK-19B     | Monitor Wall Mount Kit |