

# PPC2-CW215-ADLP

## iEi Heavy Industrial Panel PC

Powered by Intel® Alder Lake-P & Raptor Lake-P



[www.ieiworld.com](http://www.ieiworld.com)



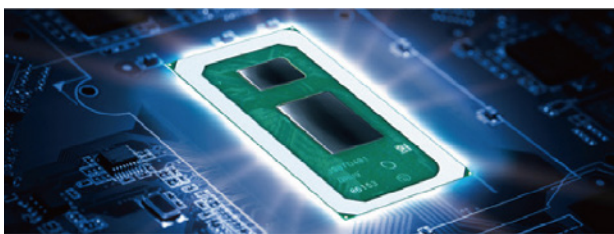
# PPC2-CW215-ADLP

Fanless panel PC with narrow bezel design, Intel® Alder Lake-P & Raptor 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/13th Generation Intel® Core™ i Processors (Alder Lake-P & Raptor Lake-P Platform)

Powered by 12th/13th generation Intel® Alder Lake-P & Raptor Lake-P Series processors and asynchronous architecture, unleashing superior performance.



## Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen can display clearly without reflection.



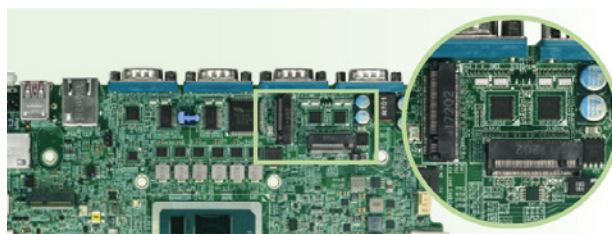
## Extensive I/O Interfaces

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.



## 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.



## 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.

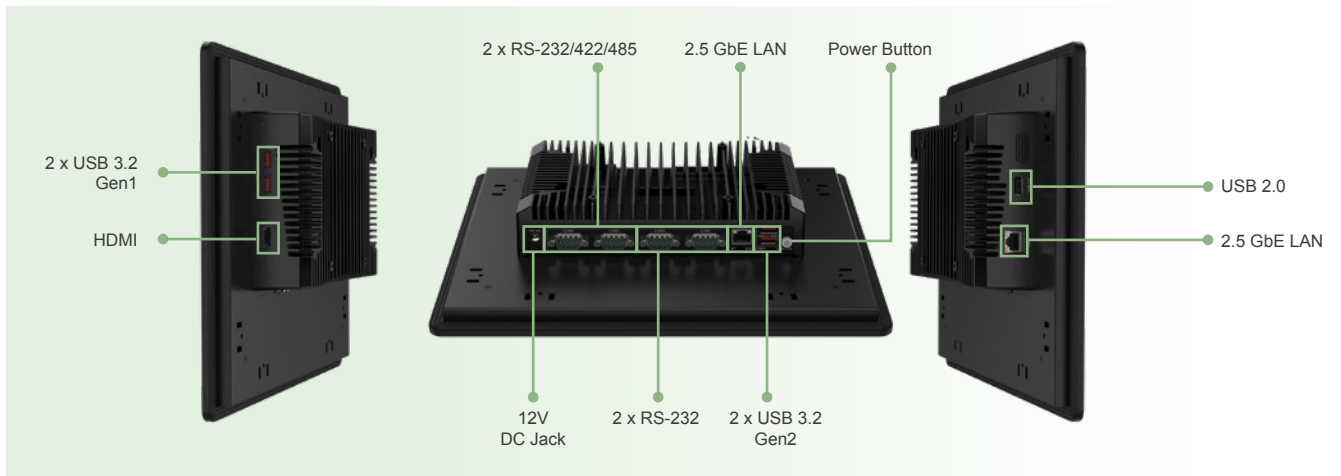


## IP65 rated front panel protection

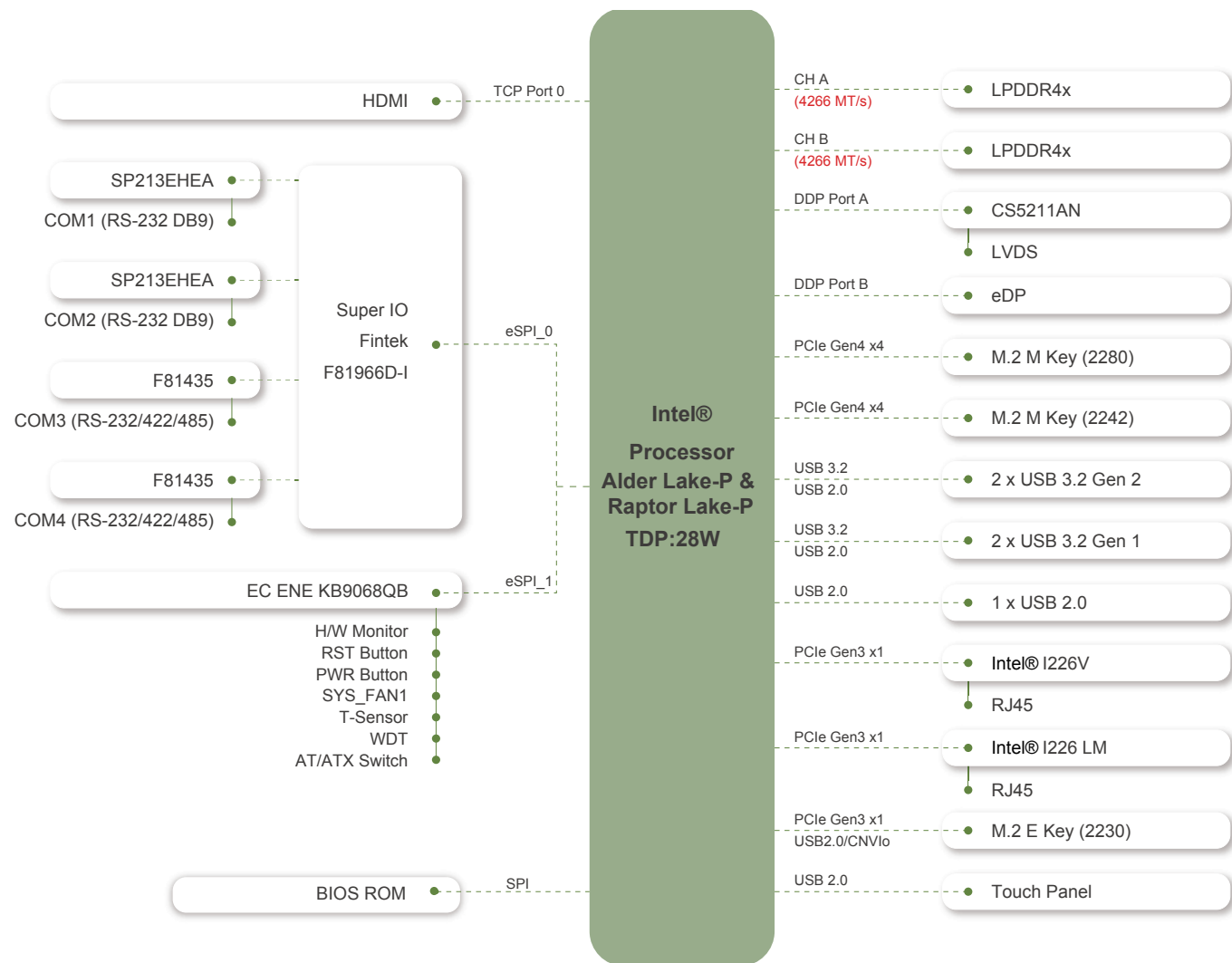
With the IP65 front panel protection rating, this series is more durable and rugged, ensuring reliable operation in harsh industrial environments.



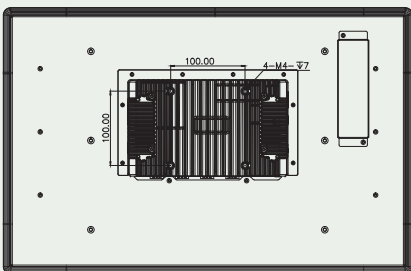
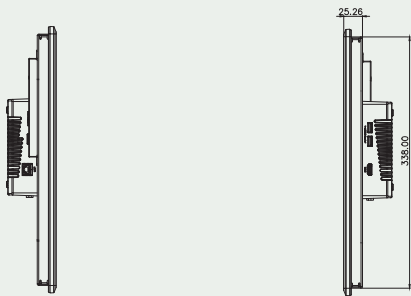
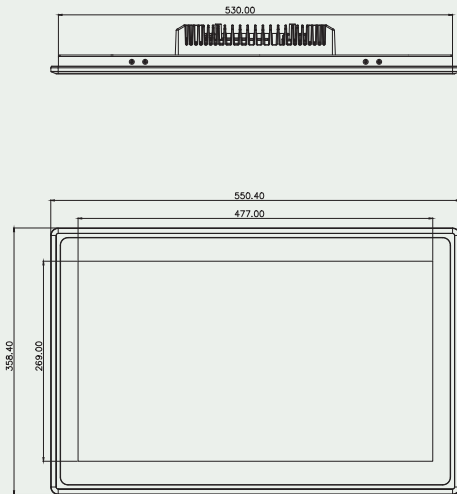
# Fully Integrated I/O



# Block Diagram



## Dimensions (Unit: mm)



## Specifications

| Model                                 | PPC2-CW215-ADLP                                                                                                                                                                                                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD Display                           | 21.5" (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)                   | 178°/178°                                                                                                                                                                                                                                                             |
| Backlight MTBF                        | 50000 hours                                                                                                                                                                                                                                                           |
| CPU (SoC)                             | support 12th/13th Generation Intel® Core™ i Processors (Alder Lake-P & Raptor Lake-P)<br>Intel® Core™ i7-1370PE (up to 4.8GHz, 14-core, 28W TDP)<br>Intel® Core™ i5-1340PE (up to 4.5GHz, 12-core, 28W TDP)<br>Intel® Core™ i3-1320PE (up to 4.5GHz, 8-core, 28W TDP) |
| 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® I226V 2.5GbE controller<br>LAN2: Intel® 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                       | 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<br>1 x HDMI output<br>1 x 12V DC Jack<br>1 x Power button<br>1 x AT/ATX switch<br>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@3.99A (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)                    | 550.40 x 358.4 (mm)                                                                                                                                                                                                                                                   |
| Cutout Dimensions(mm)                 | 532.60 x 340.60                                                                                                                                                                                                                                                       |
| Net Weight                            | 6.48 kg                                                                                                                                                                                                                                                               |
| ErP                                   | ErP 2009/125/EC                                                                                                                                                                                                                                                       |
| OS                                    | Windows 10/11 IoT, Linux                                                                                                                                                                                                                                              |

## Ordering Information

|                           |                                                                                                                                                                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPC2-CW215-ADLP-Ri3EC-R11 | 21.5" 400cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 13th Generation Intel® Core™ i3-1320PE on-board Processor, TDP 28W, 8GB on-board memory, PCAP touch, 12V DC, R11  |
| PPC2-CW215-ADLP-Ri5EC-R11 | 21.5" 400cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 13th Generation Intel® Core™ i5-1340PE on-board Processor, TDP 28W, 8GB on-board memory, PCAP touch, 12V DC, R11  |
| PPC2-CW215-ADLP-Ri7ED-R11 | 21.5" 400cd/m <sup>2</sup> 1920x1080 Fanless Panel PC with 13th Generation Intel® Core™ i7-1370PE on-board Processor, TDP 28W, 16GB on-board memory, PCAP touch, 12V DC, R11 |

## Packing List

|                |                   |         |                 |                     |
|----------------|-------------------|---------|-----------------|---------------------|
| 1 x Power Cord | 1 x Power Adapter | 1 x QIG | 1 x Thermal Pad | 9 x Panel Mount Kit |
|----------------|-------------------|---------|-----------------|---------------------|

## Options

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