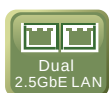


# PPC2-CW19-ADL

Panel PC equips 12th Gen Intel® Alder Lake S series processor, HDMI 2.0 display output, dual 2.5G Ethernet port, one PCIe Gen4 x16 slot, one M.2 M key & one M.2 E key expansion slots, anti-glare & anti-UV 10-point touchscreen, and IP65 compliant front panel



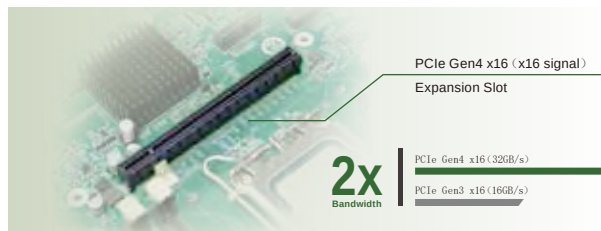
## 12th Gen Intel® Desktop Platform

Support 12th Gen Intel® Core™/Pentium® series desktop processor, and asynchronous architecture to unleash superb performance



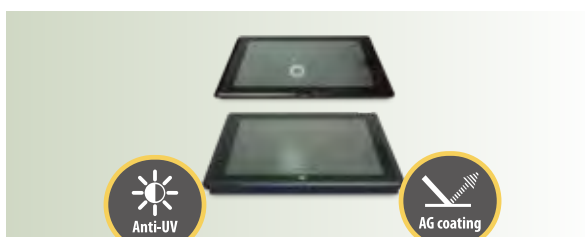
## PCIe Gen4 x16 (x16 signal) Slot

One PCIe x16 for functional expansions like graphics cards, LAN cards or motion control cards.



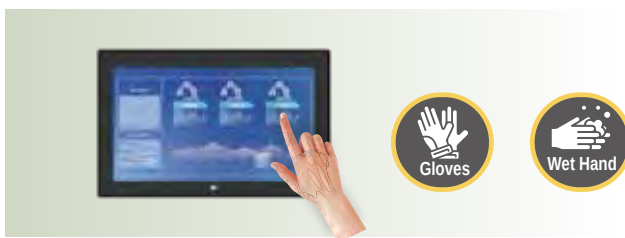
## Anti-glare and Anti-UV PCAP

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



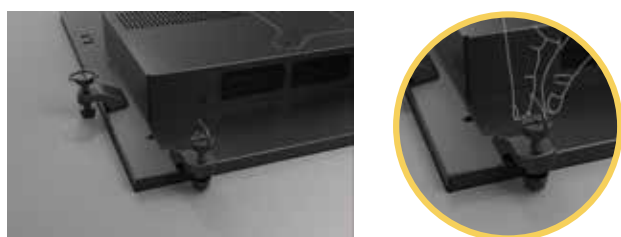
## Support Gloved and Wet Hand Operation

The whole new PCAP screen allows you to accurately manage every step of your operations even with gloves or in wet conditions.



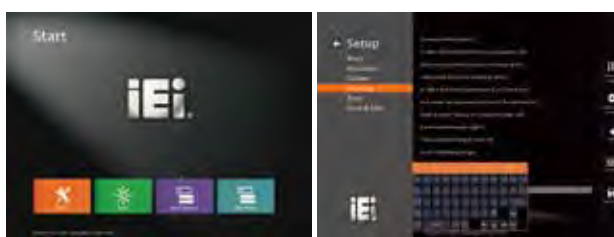
## Newly Designed Panel Mount Kit

The new refined and convenient panel mount kit can be easily fastened by hand, no screwdriver required.

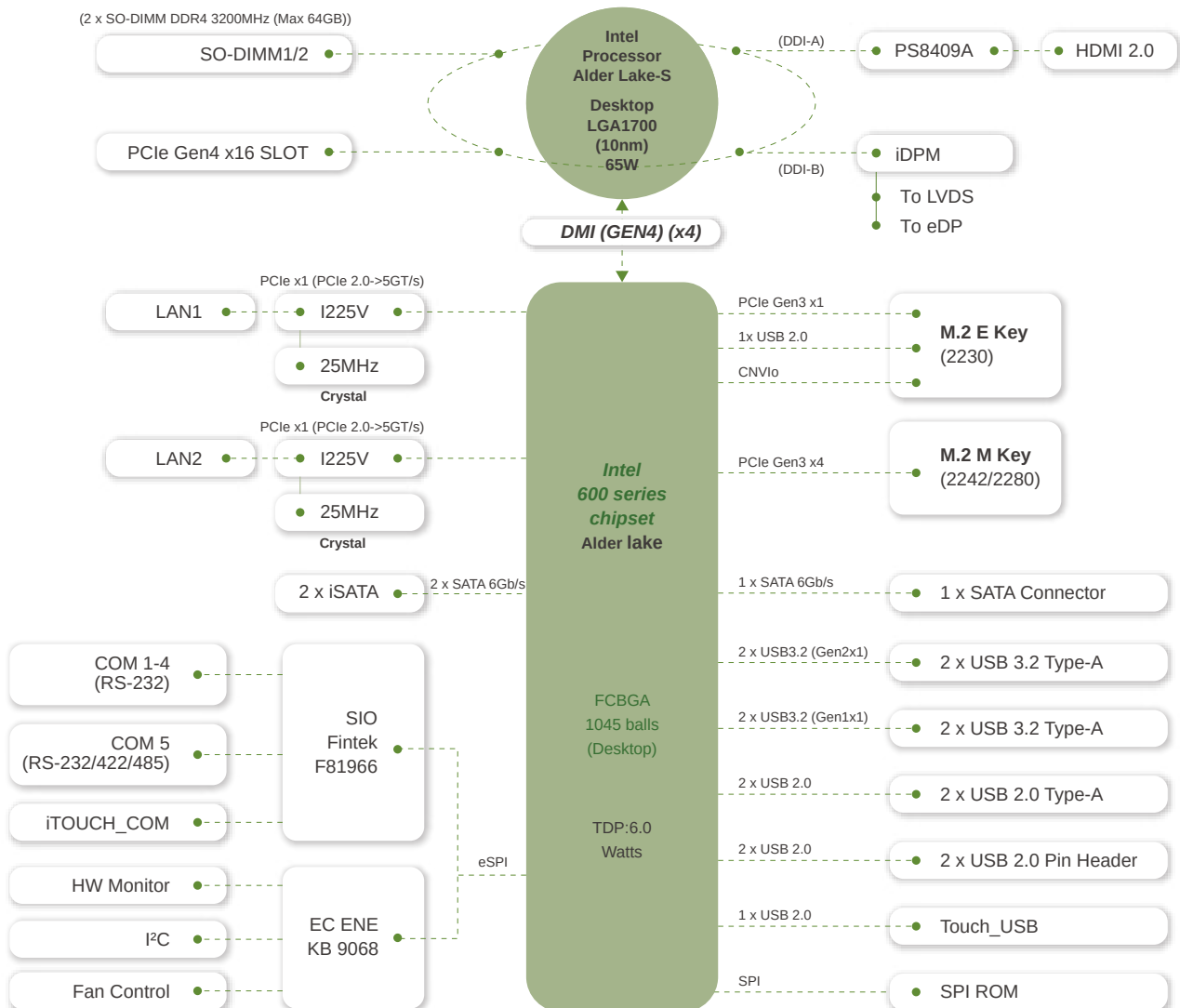
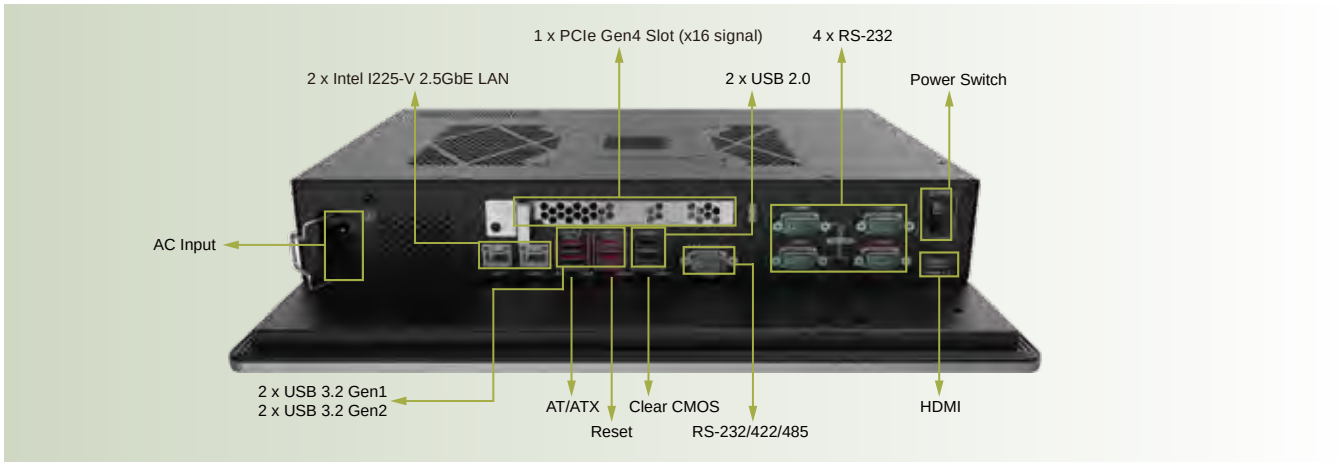


## New Graphical BIOS Interface

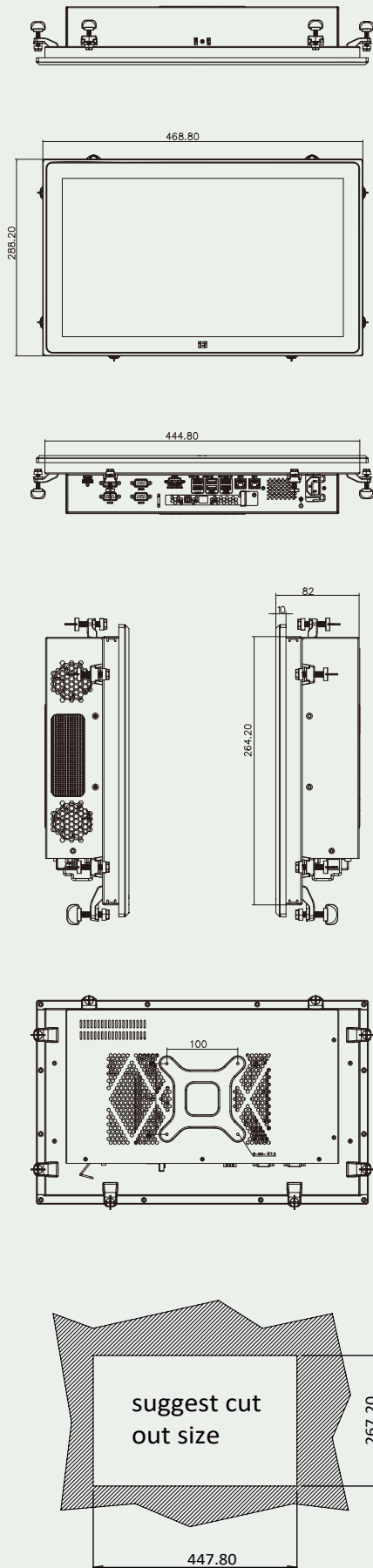
Upgraded with new BIOS interface, which can be navigated with fingers, no keyboard and mouse are required to operate.



# PPC2-CW19-ADL I/O



## Dimensions



## Specifications

| Model                                 | PPC2-CW19-ADL                                                                                                                                                                 |  |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 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                                                                                                                                                                         |  |
| Pixel Pitch (mm)                      | 0.3 x 0.3                                                                                                                                                                     |  |
| Viewing Angle (H-V)                   | 170°/160°                                                                                                                                                                     |  |
| Backlight MTBF                        | 50000 hours                                                                                                                                                                   |  |
| SBC Model                             | PPC2MB-ADL-S-R10                                                                                                                                                              |  |
| CPU                                   | Support 12th/13th/14th Gen Intel® Core™ i9/i7/i5/i3 and Pentium® Processor                                                                                                    |  |
| Chipset                               | Intel® H610                                                                                                                                                                   |  |
| Graphics Engine                       | New Intel® Xe Graphics architecture with SRIOV, Genlock                                                                                                                       |  |
| Display Output                        | 1 x HDMI 2.0                                                                                                                                                                  |  |
| Memory                                | 1 x 8GB 3200Mhz SO-DIMM DDR4 (Max. 64GB)                                                                                                                                      |  |
| Touchscreen                           | Multi-point projected capacitive type<br>Surface hardness: ≥7H                                                                                                                |  |
| Touch Controller                      | Projected capacitive type: EETI 80                                                                                                                                            |  |
| Storage                               | 1 x 2.5" SATA HDD bay (Height limit: 7.5mm)                                                                                                                                   |  |
| Ethernet                              | LAN1: Intel® I225 + LAN2: Intel® I225<br>1 x PCIe Gen4 x 16 slot with x16 Signal                                                                                              |  |
| Expansion                             | 1 x M.2 E-Key 2230 (PCIe Gen3 x1 + CNVio + USB 2.0)<br>1 x M.2 M Key 2242/2280 NVMe (PCIe Gen3 x 4)                                                                           |  |
| Mounting                              | VESA 100mm x 100mm<br>Panel, Wall, Rack, Stand and Arm                                                                                                                        |  |
| Construction Material                 | Aluminum front cover and sheet metal rear cover                                                                                                                               |  |
| Enclosure Color                       | Black C                                                                                                                                                                       |  |
| I/O Ports, Switches and Buttons       | 1 x HDMI 2.0<br>2 x 2.5GbE RJ45<br>2 x USB 2.0 (Type-A)<br>2 x USB 3.2 Gen1 (Type-A) (5Gb/s)<br>2 x USB 3.2 Gen2 (Type-A) (10Gb/s)<br>1 x RS-232/422/485 (RS-485 support AFC) |  |
| Power Supply                          | 4 x RS-232<br>1 x AC input<br>1 x Power switch<br>1 x Clear CMOS button<br>1 x Reset button<br>1 x AT/ATX switch                                                              |  |
| Power Consumption                     | ATX/AT power supply<br>Support AT/ATX mode<br>ErP/EuP Compliant                                                                                                               |  |
| Power Consumption                     | TBD                                                                                                                                                                           |  |
| Thermal Solution                      | Smart fan (2 x CPU fan, 2 x System fan)                                                                                                                                       |  |
| TPM                                   | Intel® Platform Trust Technology                                                                                                                                              |  |
| Watchdog Timer                        | Software Programmable Support 1~255 sec. system reset                                                                                                                         |  |
| Operating Temperature (with air flow) | -10°C ~ 60°C                                                                                                                                                                  |  |
| Storage Temperature                   | -20°C ~ 60°C                                                                                                                                                                  |  |
| Humidity                              | 10% ~ 95%, non-condensing                                                                                                                                                     |  |
| IP Level                              | IP 65 compliant front panel                                                                                                                                                   |  |
| Safety and EMC                        | CE, FCC Class A, UKCA                                                                                                                                                         |  |
| ErP                                   | ErP 2009/125/EC                                                                                                                                                               |  |
| Dimensions (H x W x D) (mm)           | 468.80 x 288.20 x 82                                                                                                                                                          |  |
| Net Weight                            | 6.965 kg                                                                                                                                                                      |  |

## Packing List

|                     |                |
|---------------------|----------------|
| 1 x Power Cord      | 1 x QIG        |
| 1 x Panel Mount Kit | 1 x Screw Pack |

## Ordering Information

|                         |                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PPC2-CW19-ADL-i7/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 panel PC with 12th Intel® Core™ i7-12700 processor (25M cache, up to 4.90 GHz), TDP 65W, 8GB DDR4, HDMI output, 1 x PCIe Gen4 x16 slot, 1 x M.2 E key, 1 x M.2 M key, ATX/AT power supply, PCAP touchscreen with AG, R10 |
| PPC2-CW19-ADL-i5/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 panel PC with 12th Intel® Core™ i5-12400 processor (18M cache, up to 4.40 GHz), TDP 65W, 8GB DDR4, HDMI output, 1 x PCIe Gen4 x16 slot, 1 x M.2 E key, 1 x M.2 M key, ATX/AT power supply, PCAP touchscreen with AG, R10 |
| PPC2-CW19-ADL-i3/8G-R10 | 18.5" 350cd/m <sup>2</sup> 1920x1080 panel PC with 12th Intel® Core™ i3-12100 processor (12M cache, up to 4.30 GHz), TDP 60W, 8GB DDR4, HDMI output, 1 x PCIe Gen4 x16 slot, 1 x M.2 E key, 1 x M.2 M key, ATX/AT power supply, PCAP touchscreen with AG, R10 |
| PPC2-CW19-ADL-P/8G-R10  | 18.5" 350cd/m <sup>2</sup> 1920x1080 panel PC with 12th Intel® Pentium® Gold G7400 processor (6M cache, 3.70 GHz), TDP 46W, 8GB DDR4, HDMI output, 1 x PCIe Gen4 x16 slot, 1 x M.2 E key, 1 x M.2 M key, ATX/AT power supply, PCAP touchscreen with AG, R10   |

## Options

| Item      | Part No.             | Description                                     |
|-----------|----------------------|-------------------------------------------------|
| Arm       | ARM-31-RS            | VESA 75/100 desk arm                            |
| Stand     | STAND-C19-R10        | VESA 75/100 easy stand                          |
| Wall      | AFLWK-19B            | Wall mounting kit                               |
| OS        | WIN10-IOTE2021-H-RS  | Win10 IoT Ent LTSC 2021 MultiLang OEI High End  |
| Wi-Fi Kit | EMB-WIFI-KIT02I3-R10 | 2T2R M.2 Wi-Fi module, Wi-Fi 6E & Bluetooth 5.2 |