

# AFL4-W133-ADLP

## IEI Light Industrial Panel PC

Powered by Intel® Alder Lake-P / Raptor Lake-P Platform



**iei**®

WWW.IEIWORLD.COM



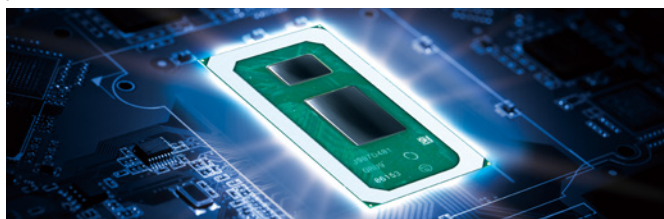
# AFL4-W133-ADLP

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, four UART, five USB, two M.2 M key expansion slots, and anti-glare & anti-UV 10-point touchscreen



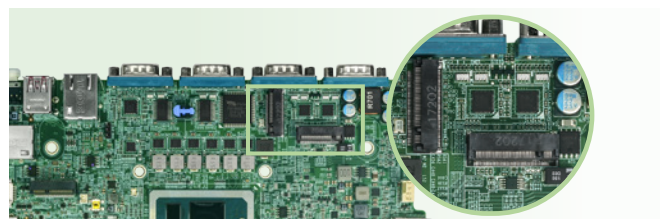
## 12th/13th Generation Intel® Core™ i Processors (Alder Lake-P & Raptor Lake-P Platform)

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



## 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 touch screen can be displayed clearly without reflection.



## 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.

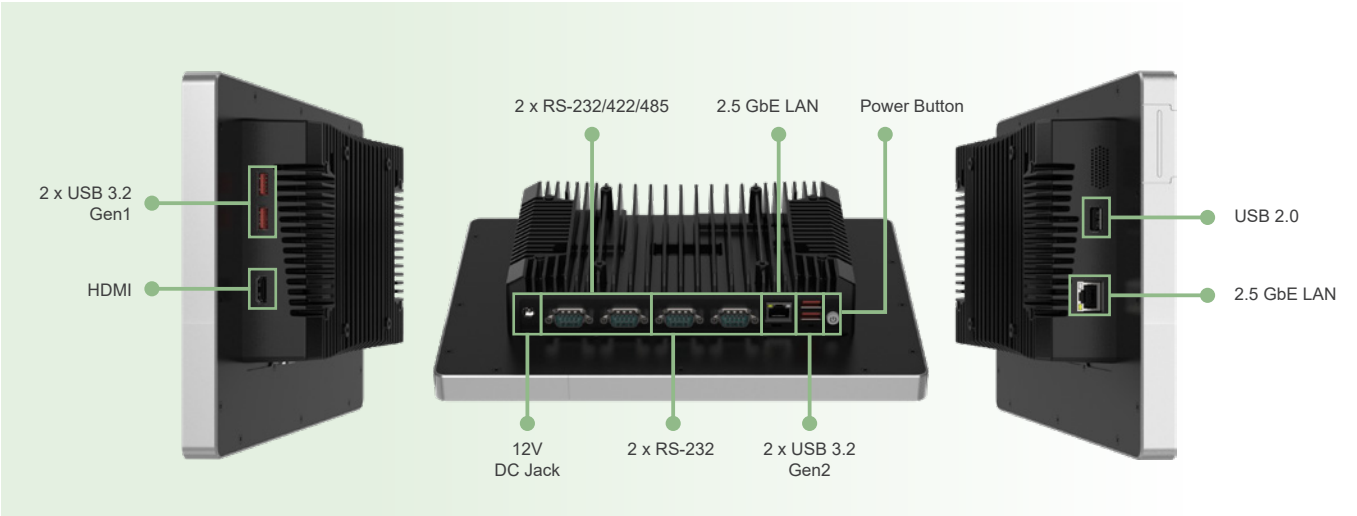


## Support WiFi 6E and Bluetooth 5.2

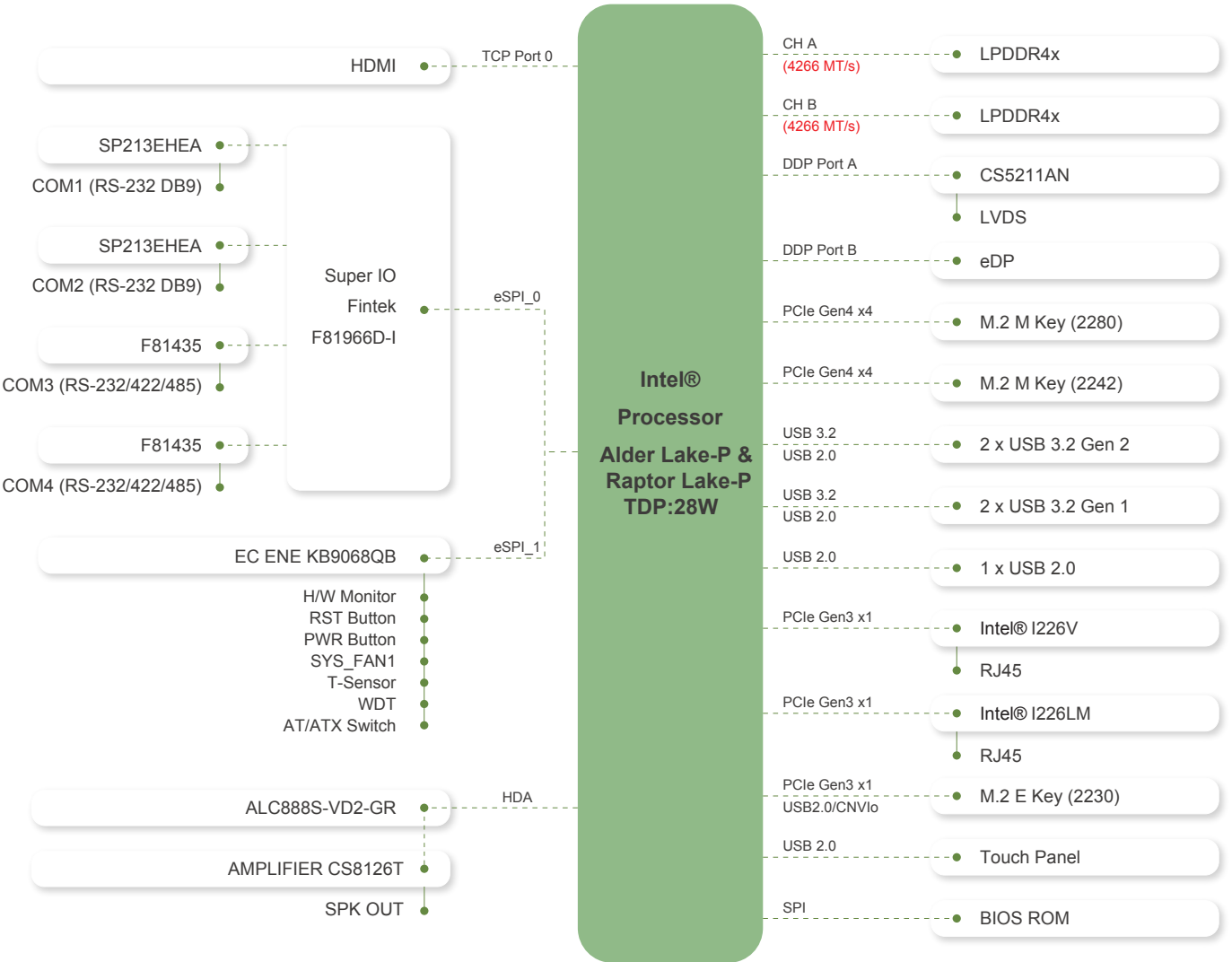
Strong Wi-Fi 6E wireless network capability provides more bandwidth, and the low latency Bluetooth 5.2 connection is more stable and consumes less power.



Fully Integrated I/O



Block Diagram



## Specifications

| Model                                 | AFL4-W133-ADLP                                                                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| LCD Display                           | 13.3" (16:9)                                                                                                                                                                                                                                                                                                                                    |  |
| Resolution                            | 1920 (W) x 1080 (H)                                                                                                                                                                                                                                                                                                                             |  |
| Brightness                            | 350 cd/cm <sup>2</sup>                                                                                                                                                                                                                                                                                                                          |  |
| Contrast Ratio                        | 800:1                                                                                                                                                                                                                                                                                                                                           |  |
| LCD Color                             | 16.2M                                                                                                                                                                                                                                                                                                                                           |  |
| Viewing Angle (H-V)                   | 170°/170°                                                                                                                                                                                                                                                                                                                                       |  |
| Backlight MTBF                        | 50,000 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 8GB LPDDR4x on-board                                                                                                                                                                                                                                                                                                               |  |
| Touchscreen                           | Multi-point projected capacitive type (anti-UV / anti-glare coating,support gloves)                                                                                                                                                                                                                                                             |  |
| 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, Wall, Stand and Arm                                                                                                                                                                                                                                                                                                                   |  |
| Construction Material                 | Aluminum front cover and sheet metal rear cover                                                                                                                                                                                                                                                                                                 |  |
| Enclosure Color                       | Silver+Black                                                                                                                                                                                                                                                                                                                                    |  |
| I/O Ports, Switch                     | <div> <div>2 x RS-232 by DB9</div> <div>2 x RS-232/422/485 by DB9</div> <div>2 x 2.5GbE LAN</div> <div>2 x USB 3.2 Gen2</div> <div>2 x USB 3.2 Gen1</div> <div>1 x USB 2.0</div> </div> <div> <div>1 x HDMI output</div> <div>1 x 12V DC Jack</div> <div>1 x Power button</div> <div>1 x Reset button</div> <div>1 x AT/ATX switch</div> </div> |  |
| Wireless & Bluetooth                  | IEEE 802.11ax 2T2R module (Wi-Fi 6E) with BT v5.2 (M.2 2230 E-key)                                                                                                                                                                                                                                                                              |  |
| Thermal Solution                      | Fanless                                                                                                                                                                                                                                                                                                                                         |  |
| Power Input                           | DC 12V                                                                                                                                                                                                                                                                                                                                          |  |
| Power consumption                     | +12V @ 3.82A (Intel® Core i7-1270PE with 8GB 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                              | IP 64 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 x D)                | 327.70 x 203.33 x 57.80 (mm)                                                                                                                                                                                                                                                                                                                    |  |
| Net Weight                            | 2.56kg                                                                                                                                                                                                                                                                                                                                          |  |
| ErP                                   | ErP 2009/125/EC                                                                                                                                                                                                                                                                                                                                 |  |
| OS                                    | Windows 10/11 IoT, Linux                                                                                                                                                                                                                                                                                                                        |  |

## Ordering Information

|                             |                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFL4-W133-ADLP-Ri3E/8G-R11  | 13.3" 350cd/m <sup>2</sup> 1920x1080 fanless panel PC with Intel® Core™ i3-1320PE on-board processor, 8GB LPDDR4x on-board, Wi-Fi 6E and Bluetooth 5.2 module, PCAP touch, 12V DC, R11  |
| AFL4-W133-ADLP-Ri5E/8G-R11  | 13.3" 350cd/m <sup>2</sup> 1920x1080 fanless panel PC with Intel® Core™ i5-1340PE on-board processor, 8GB LPDDR4x on-board, Wi-Fi 6E and Bluetooth 5.2 module, PCAP touch, 12V DC, R11  |
| AFL4-W133-ADLP-Ri7E/16G-R11 | 13.3" 350cd/m <sup>2</sup> 1920x1080 fanless panel PC with Intel® Core™ i7-1370PE on-board processor, 16GB LPDDR4x on-board, Wi-Fi 6E and Bluetooth 5.2 module, PCAP touch, 12V DC, R11 |

## Packing List

| Item          | Q'ty |
|---------------|------|
| Power Cord    | 1    |
| Power Adapter | 1    |
| QIG           | 1    |
| Thermal Pad   | 1    |

## Options

| Item  | Part No.                 | Description                                                                |
|-------|--------------------------|----------------------------------------------------------------------------|
| Stand | STAND-C12-R10            | VESA 75/100 Easy Stand                                                     |
| Wall  | AFLWK-19B                | Monitor Wall Mount Kit                                                     |
| OS    | AFL4-ADLP-W10IoT21-H-R10 | Windows® 10 Enterprise High End 64-bit 2021 LTSC for AFL4-ADLP i7 Series   |
|       | AFL4-ADLP-W10IoT21-V-R10 | Windows® 10 Enterprise Value 64-bit 2021 LTSC for AFL4-ADLP i3 & i5 Series |
|       | AFL4-ADLP-W11IoT22-H-R10 | Windows® 11 Enterprise High End 64-bit 2022 LTSC for AFL4-ADLP i7 Series   |
|       | AFL4-ADLP-W11IoT22-V-R10 | Windows® 11 Enterprise Value 64-bit 2022 LTSC for AFL4-ADLP i3 & i5 Series |

## Dimensions (Unit: mm)

