

# AFL4-W07-EHL

## IEI Light Industrial Panel PC

Powered by Intel® Elkhart Lake Platform



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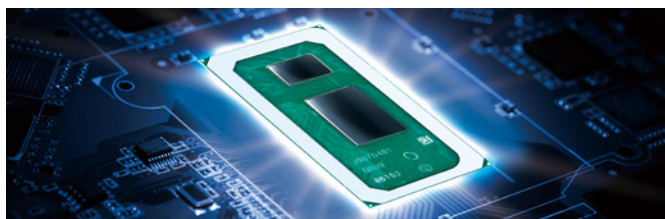
# AFL4-W07-EHL

Fanless panel PC with narrow bezel design, Intel® Celeron® J6412 processor, on-board 8GB memory, HDMI output, 2.5GbE LAN, two UART, three USB, one M.2 M key expansion slot, and anti-glare & anti-UV 10-point touchscreen



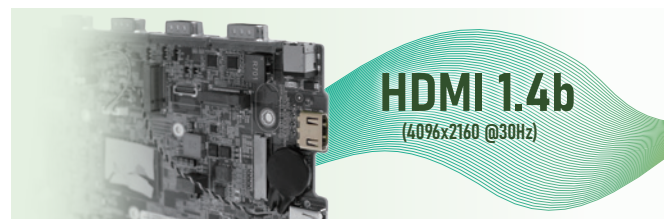
## Intel® Celeron® J6412 SoC

Intel® Elkhart Lake low power SoC, adopting 10nm process, 4-core 4-thread, 2.00GHz base frequency and up to 2.60GHz burst frequency



## Support 4K UHD Display Output

10th generation Intel® Ultra HD graphics engine allows the system to display video and images in stunning 4K resolution over HDMI 1.4b



## Anti-glare and Anti-UV PCAP

With anti-glare and anti-UV coating, the 10-point touchscreen provides clear display 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 two UART, three USB, one 2.5G network port and one HDMI interface.

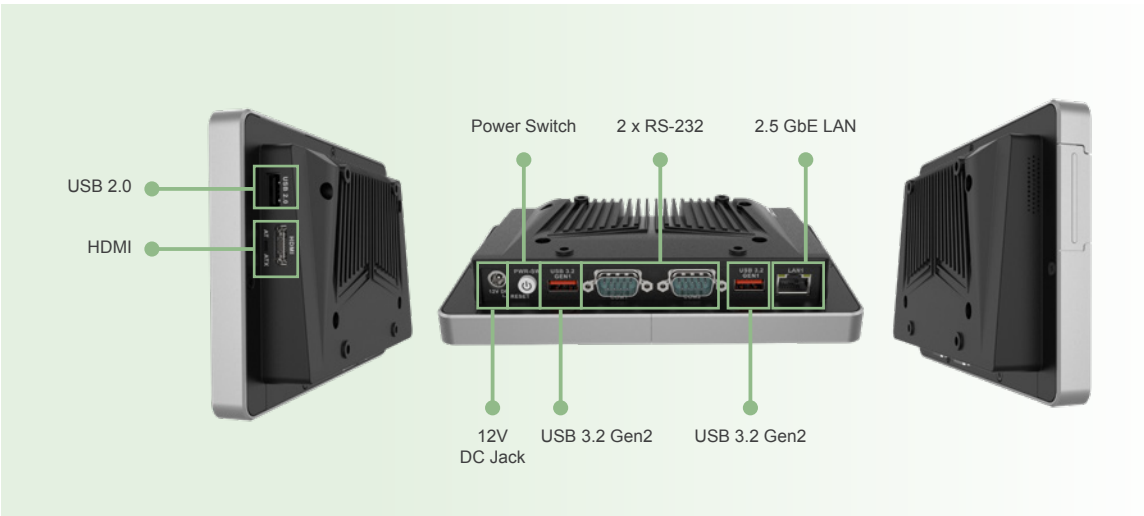


## Support Wi-Fi 6E and Bluetooth 5.2

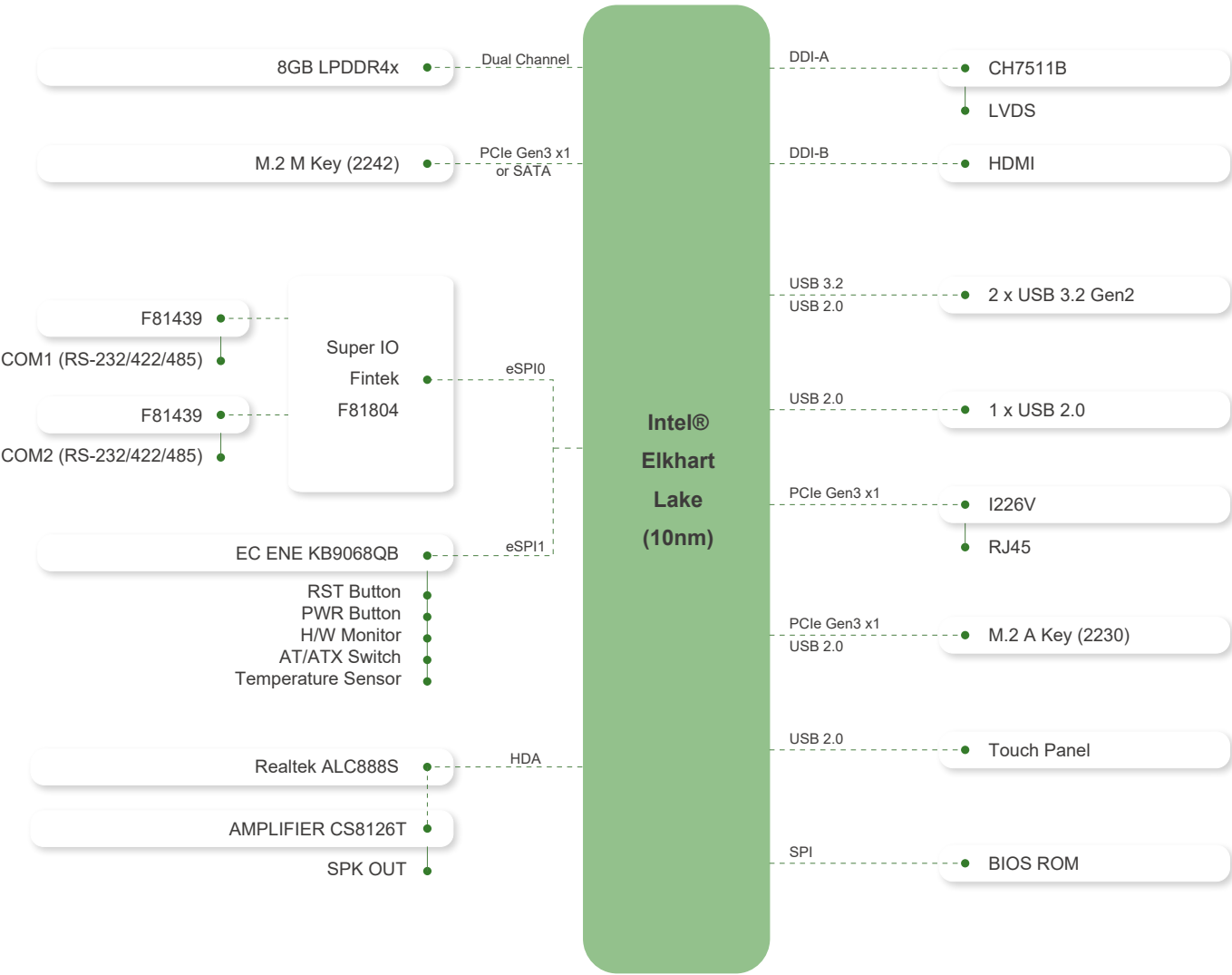
Strong Wi-Fi 6E wireless network capability provides more bandwidth, and the low latency Bluetooth 5.2 connection is more stable and consumes less power.



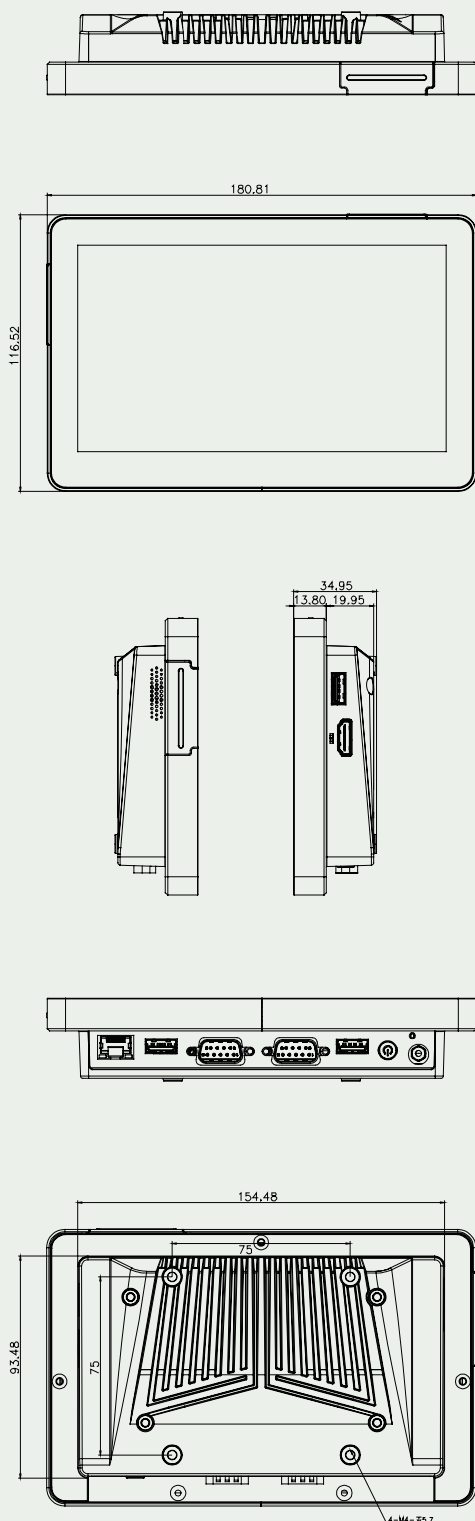
Fully Integrated I/O



Block Diagram



## Dimensions (Unit: mm)



## Specifications

| Model                |                            | AFL4-W07-EHL                                                         |                  |  |
|----------------------|----------------------------|----------------------------------------------------------------------|------------------|--|
| LCD                  | Size                       | 7" (16:9)                                                            |                  |  |
|                      | Resolution (WxH)           | 1024 x 600                                                           |                  |  |
|                      | Brightness (cd/m²)         | 450                                                                  |                  |  |
|                      | LCD Color                  | 16.2M                                                                |                  |  |
|                      | Pixel Pitch (mm)           | 0.1506 x 0.1432                                                      |                  |  |
|                      | Contrast Ratio             | 800:1                                                                |                  |  |
|                      | Viewing Angle (H-V)        | 170°/170°                                                            |                  |  |
|                      | Backlight MTBF             | 20000 hours                                                          |                  |  |
| Touch                | Touch Screen               | PCAP with USB interface (Anti-UV/AG coating)                         |                  |  |
|                      | Touch Controller           | EETI EXC 81 Series                                                   |                  |  |
| Mainboard            | SOC                        | Intel® Celeron® Processor J6412 1.5M Cache, up to 2.60 GHz / TDP 10W |                  |  |
|                      | RAM                        | Dual channel 8GB LPDDR4x on-board (up to 16GB)                       |                  |  |
|                      | Ethernet                   | LAN1: Intel® I226V 2.5GbE controller                                 |                  |  |
|                      | Audio Codec                | Realtek ALC888S                                                      |                  |  |
|                      | Storage                    | 128GB eMMC (optional)                                                |                  |  |
|                      | Expansion                  | 1 x M.2 M key 2242 (PCIe Gen3 x1 or SATA)                            |                  |  |
|                      | I/O Ports & Switch         | 2 x RS-232/422/485 by DB9                                            | 1 x 12V DC Jack  |  |
|                      |                            | 1 x 2.5GbE LAN                                                       | 1 x Power button |  |
| 2 x USB 3.2 Gen2     |                            | 1 x Reset button                                                     |                  |  |
| 1 x USB2.0           |                            | 1 x AT/ATX switch                                                    |                  |  |
|                      |                            | 1 x HDMI output                                                      |                  |  |
| Audio                |                            | AMP 1.2W (internal speaker)                                          |                  |  |
| Wireless & Bluetooth |                            | IEEE 802.11ax 2T2R module (Wi-Fi 6E) with BT v5.2 (M.2 2230 A Key)   |                  |  |
| Physical             | Body Material              | Aluminum die casting+SECC                                            |                  |  |
|                      | Mounting                   | Wall, Stand, ARM, VESA 75                                            |                  |  |
|                      | Color                      | Silver+Black                                                         |                  |  |
| Environment          | Operating Temperature (°C) | -10 ~ 40                                                             |                  |  |
|                      | Storage Temperature (°C)   | -20 ~ 60                                                             |                  |  |
|                      | Humidity                   | 10% to 95%@40°C (non-condensing)                                     |                  |  |
|                      | Safety&EMC                 | CE/EMC, UKCA, FCC, RED (Class A)                                     |                  |  |
|                      | Thermal Solution           | Fanless                                                              |                  |  |
|                      | Power Consumption          | 12V@3.29A                                                            |                  |  |
|                      | IP level                   | Front Panel Compliance IP64                                          |                  |  |
| ErP                  | ErP 2009/125/EC            |                                                                      |                  |  |
| OS                   | Windows 10/11 IoT/Linux    |                                                                      |                  |  |
| Net Weight           |                            | 0.74kg                                                               |                  |  |

## Packing List

| Item          | Q'ty |
|---------------|------|
| Power cord    | 1    |
| Power adapter | 1    |
| QIG           | 1    |

## Ordering Information

| Part No.              | Description                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFL4-W07-EHL-J1CM-R11 | 7" 450cd/m <sup>2</sup> 1024x600 fanless panel PC with Intel® Celeron® J6412 on-board processor, TDP 10W, 8GB LPDDR4x on-board, Wi-Fi 6E and Bluetooth 5.2 module, PCAP touch, Rayson,R11 |

## Options

| Item    | Part No.              | Description                                                                                                  |
|---------|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Stand   | STAND-C12-R10         | VESA 75/100 Easy Stand                                                                                       |
| V-Stand | VSTAND-A07-R12        | Stand V Type for AFL series, VESA 75                                                                         |
| Wall    | AFLWK-12              | Monitor Wall Mount Kit                                                                                       |
| OS      | AFL4-EHL-W10IoT21-E   | OS Image with Windows® 10 Enterprise Entry 64-bit 2021 LTSC for all AFL4-X-EHL Series                        |
|         | AFL4-EHL-Win11IoT22-E | OS Image with Windows® 11 IoT Enterprise MultiLang ESD OEI Entry 2022 GAC 64-bit for all AFL4-XXX-EHL Series |