

# AFL4-W12-EHL

## IEI Light Industrial Panel PC

Powered by Intel® Elkhart Lake Platform



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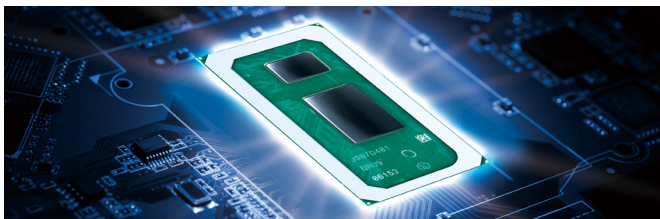
# AFL4-W12-EHL

Fanless panel PC with narrow bezel design, Intel® Celeron® J6412 processor, 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



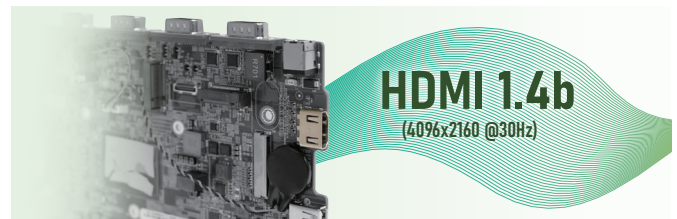
## Intel® Celeron® J6412 SoC

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 four UART, five USB, two 2.5G network port and one HDMI interface.

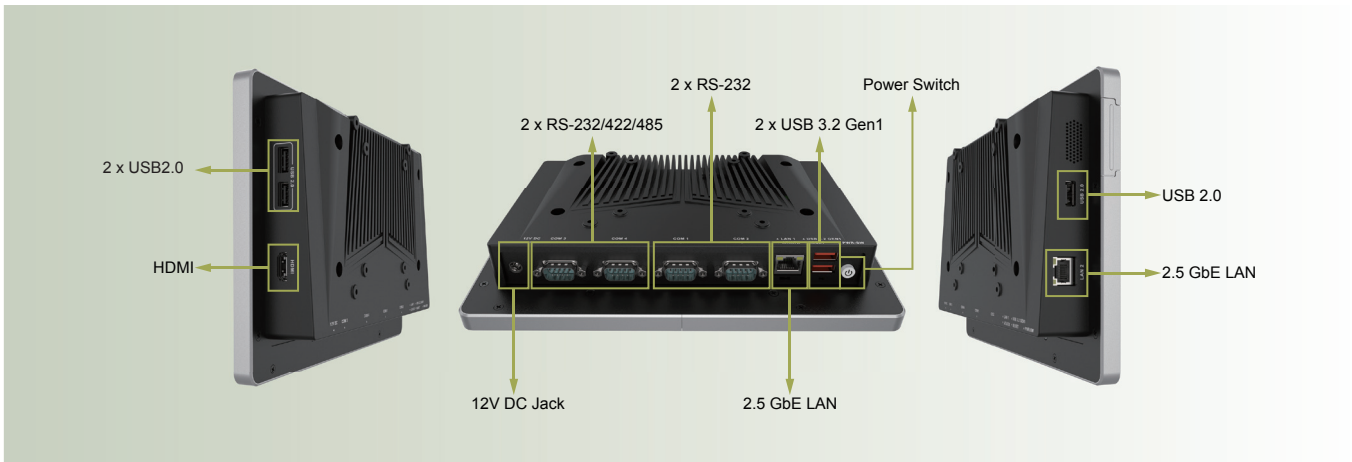


## Support WiFi 6E and Bluetooth 5.2

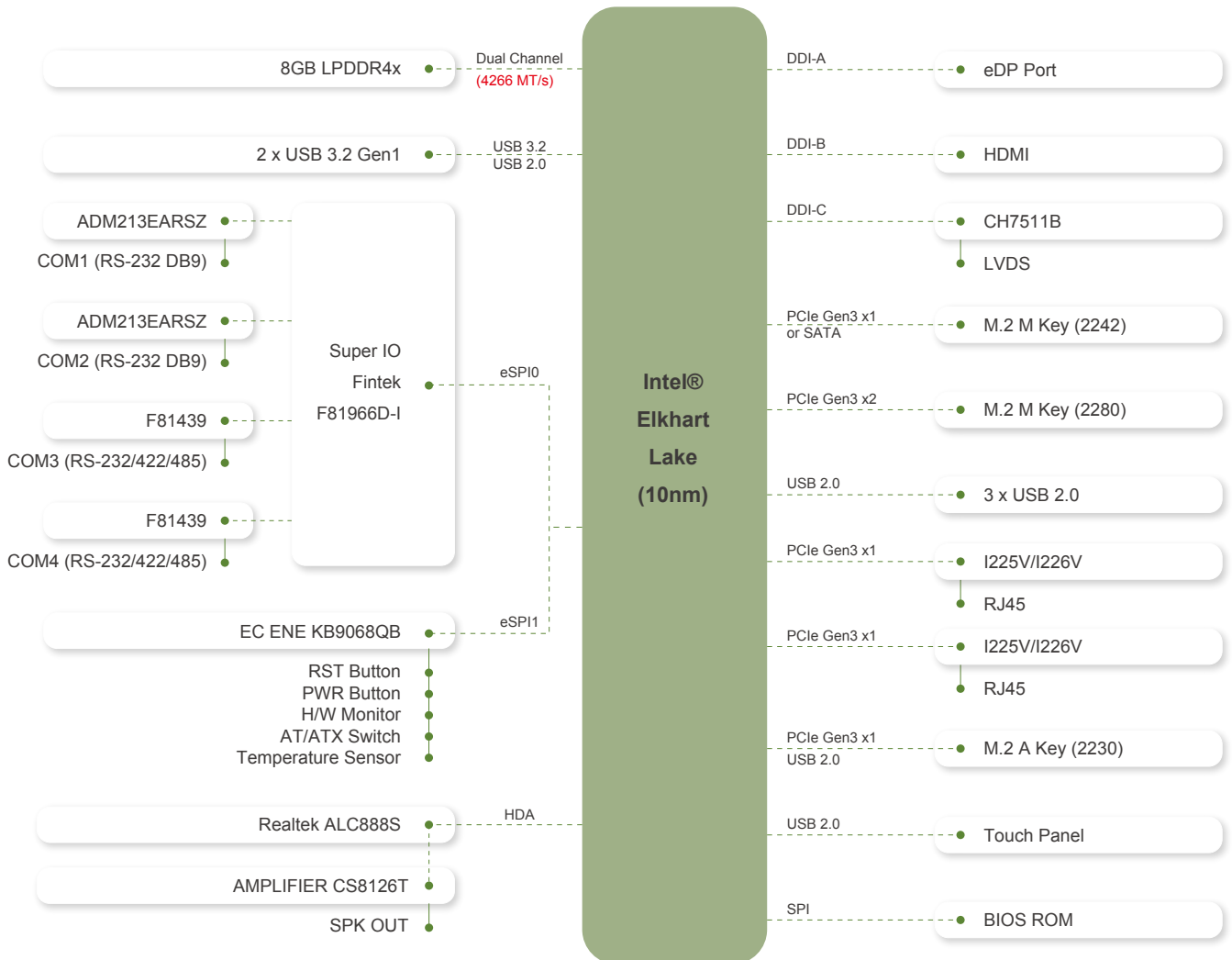
Strong Wi-Fi 6E wireless network capability provides more bandwidth, and the low latency Bluetooth 5.2 connection is more stable and consumes less power.



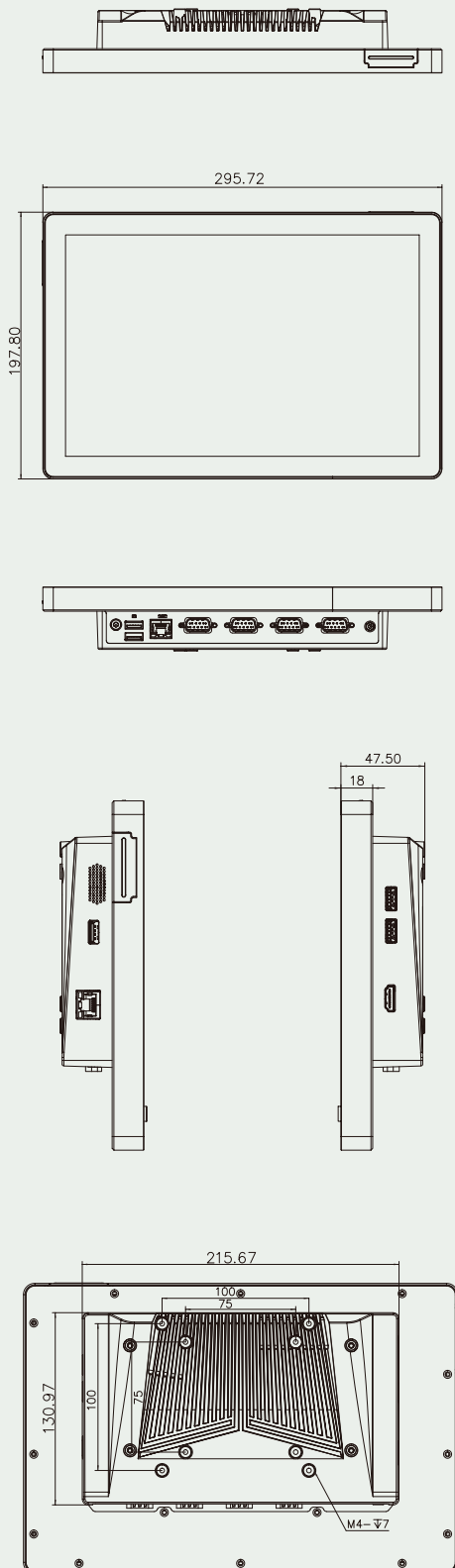
## Fully Integrated I/O



## Block Diagram



## Dimensions (Unit: mm)



## Specifications

Model		AFL4-W12-EHL
LCD	Size	12.1" (16:10)
	Resolution (WxH)	1280 x 800
	Brightness (cd/m <sup>2</sup> )	500
	LCD Color	16.7M
	Pixel Pitch (mm)	0.1695 x 0.1695
	Contrast Ratio	1200:1
	Viewing Angle (H-V)	170°/170°
Touch Panel	Backlight MTBF	50000 hours
	Touch Screen	PCA with USB interface (anti-UV/AG coating)
Touch Panel	Touch IC	EETI EXC 81 Series
	SOC	Intel® Celeron® Processor J6412 1.5M Cache, up to 2.60 GHz / TDP 10W
Motherboard	RAM	Dual channel 8GB LPDDR4x on board (up to 16GB)
	Ethernet	LAN1: Intel® I225V/I226V 2.5GbE controller LAN2: Intel® I225V/I226V 2.5GbE controller
	Audio Codec	Realtek ALC888S
	Expansion & Storage	1 x M.2 M key 2242 (PCIe Gen3 x1 or SATA) 1 x M.2 M key 2280 (PCIe Gen3 x2)
I/O Ports & Switch		2 x RS-232 by DB9 2 x RS-232/422/485 by DB9 2 x 2.5GbE LAN 2 x USB 3.2 Gen1 3 x USB 2.0
		1 x HDMI output 1 x 12V DC jack 1 x Power button 1 x Reset button 1 x AT/ATX switch
Speaker		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
	Mounting	Wall, Stand, Arm, VESA 75/100
	Color	Silver+Black
Environment	Operating Temperature (°C)	-10 ~ 50
	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 Input	12V@3.13A
IP level	Front Panel Compliance IP64	
ErP		ErP 2009/125/EC
OS		Windows 10/11 IoT / Linux
Net weight		2.04kg

## Packing List

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

## Ordering Information

Part No.	Description
AFL4-W12-EHL-J1 /8G-R10	12.1" 500cd/m <sup>2</sup> 1280x800 fanless panel PC with Intel® Celeron® J6412 (10W) on-board processor, 8GB LPDDR4x on-board, Wi-Fi 6E and Bluetooth 5.2 module, PCAP touch, R10

## Options

Item	Part No.	Description
Arm	ARM-11-RS	VESA 75/100 Desk Arm
Stand	STAND-C12-R10	VESA 75/100 Easy Stand
V-Stand	VSTAND-A07-R11	Stand V Type for AFL series, VESA 75
Wall	AFLWK-12	Monitor Wall Mount Kit
OS	AFL4-EHL-W10IoT21-E-R10	OS Image with Windows® 10 Enterprise Entry 64-bit 2021 LTSC for all AFL4-X-EHL Series
	AFL4-EHL-Win11IoT22-E-R10	OS Image with Windows® 11 IoT Enterprise MultiLang ESD OEI Entry 2022 GAC 64-bit for all AFL4-XXX-EHL Series