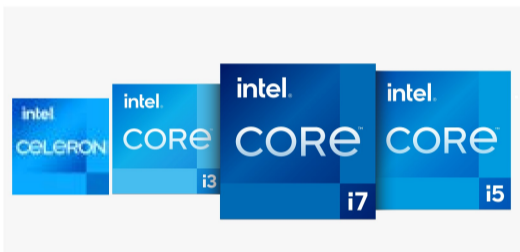




Light Industry Panel PC Product Family

AFOLUX, standing for affordable luxury, is designed to provide versatile, cost-effective solutions for light industrial markets such as factory automation, retail, medical, digital signage and POS (point of sale). It is fanless with aluminum casing, looks stylish like a tablet, and offers a variety of performance levels. Built with optimized PCAP touchscreen, rich I/O and advanced wireless communication capability by the latest technology – Wi-Fi 6E and Bluetooth 5.2, the AFL4 series is ideal for IoT applications requiring high-speed connectivity, large embedded RAM, and power efficiency.



Different Processor Performance for Different Project Requirements

- Intel® Celeron® Processor J6412
- 12th Gen Intel® Core™ Mobile i7/i5/i3 Processors



Fanless Design Extends System Lifetime

Fins that expel heat are effective in maintaining a stable temperature inside a system, while avoiding the use of ventilation that may allow harmful particles to enter.



Integrated with WiFi 6E and Bluetooth 5.2

Provide high data transmission through the internal 2T2R antennas



Rugged Aluminum Die- Casting Housing

- Excellent Thermal conductivity
- High corrosion resistance
- Durable hardness



Built-in 1.2W Speaker

- One side 1.2W speaker
- Perfect for multimedia, kiosk content



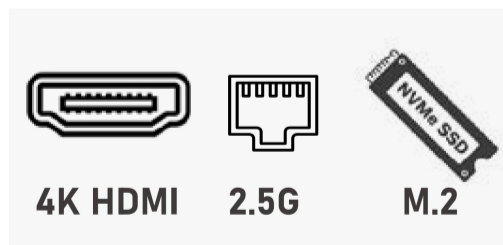
Aluminum Narrow Bezel

The panel PCs feature a 3mm narrow aluminum bezel and narrow touchscreen edge design



Responsive PCAP Touch Technologies

- 10-point multi-touch PCAP touchscreen
- 7H hardness glass with exceptional scratch resistance
- Anti-UV, anti-glare coating
- Accurately gloved hand and wet hand operation



High-Speed I/O Ports & 4K Display

- 2.5Gb Ethernet, USB 3.2 Gen 2 (10 Gbps)
- M.2 NVMe M-Key
- True 4K HDMI 1.4b (4096x2160 @30Hz)



Front Panel IP64 Waterproof

Water spray and light rain against the enclosure will have no harmful effect.

Selection Guide

Size (Resolution)	7" (1024 x 600)	10.1" (1280 x 800)	12.1" (1024 x 768)	12.1" (1280 x 800)	13.3" (1920 x 1080)
12th Gen Intel® Core™ Mobile Processors (Alder Lake-P)		AFL4-W101-ADLP	AFL4-121-ADLP	AFL4-W121-ADLP	AFL4-W133-ADLP
Intel® Celeron® Processor J6412 (Elkhart Lake)	AFL4-W07-EHL	AFL4-W10-EHL	AFL4-12-EHL	AFL4-W12-EHL	AFL4-W13-EHL

Light Industry Panel PC

Intel® Core™ Mobile Processors

intel
Alder Lake-P



LCD Size		10.1"	12.1"	12.1"	13.3"
Model		AFL4-W101-ADLP	AFL4-121-ADLP	AFL4-W121-ADLP	AFL4-W133-ADLP
LCD	Resolution (WxH)	1280 x 800 (16:10)	1024 x 768 (4:3)	1280 x 800 (16:10)	1920 x 1080 (16:9)
	Brightness (cd/m ²)	350	500	500	350
	Contrast Ratio	900:1	1200:1	1200:1	800:1
	Viewing Angle (H-V)	170/170	170/170	170/170	170/170
	Backlight MTBF	30000 hours	50000 hours	50000 hours	50000 hours
Touch	Touch Screen	PCAP with USB interface (anti-UV/AR coating)			
	Touch Controller	EETI EXC 81 Series			
Mainboard	SoC	12th Generation Intel® Core™ i7/i5/i3 Processor (Alder Lake-P)			
	RAM	Dual channel 8GB LPDDR4x on board			
	Ethernet	LAN1: Intel® I225V 2.5GbE controller LAN2: Intel® I225-LM 2.5GbE controller (support Intel® AMT)			
	Audio Codec	Realtek ALC888S			
	Expansion	1 x M.2 M key 2242 (PCIe Gen4 x4) 1 x M.2 M key 2280 (PCIe Gen4 x4)			
	I/O Ports & Switch	2 x RS-232 by DB9 2 x RS-232/422/4852 x 2.5GbE RJ45 2 x USB 3.2 Gen2 2 x USB 3.2 Gen1 1 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			
Audio		AMP 1.2W (internal speaker)			
Wireless & Bluetooth		IEEE 802.11ax 2T2R module (Wi-Fi 6E) with BT v5.2 (M.2 2230 E-key)			
Physical	Construction Front Panel	Aluminum die casting+SECC			
	Mounting	Wall, Stand , Arm, VESA 100			
	Color	Silver+Black			
Environment	Operating Temperature (°C) (Ambient with air flow)	-10 ~ 50			
	Storage Temperature (°C)	-20 ~ 60			
	Humidity	10% to 95%@40°C (non-condensing)			
	IP Level	IP64 compliant front panel			
	Safety & EMC	CE/EMC, FCC, RED (Class A)			
	Thermal Solution	Fanless			
	Power	12V DC			
	Operation Vibration	MIL-STD-810G 514.6C-1 (with SSD)			
Operation Shock	Half-sine wave shock 5G; 11ms; 100 shocks per axis				
ErP		ErP 2009/125/EC			
OS		Windows 10/11 IoT, Linux			

Light Industry Panel PC

Intel® Celeron® Processor

intel
Elkhart Lake



LCD Size		7"	10.1"	12.1"	12"	13.3"
Model		AFL4-W07-EHL	AFL4-W10-EHL	AFL4-W12-EHL	AFL4-12-EHL	AFL4-W13-EHL
LCD	Resolution (WxH)	1024 x 600 (16:10)	1280 x 800 (16:10)	1280 x 800 (16:10)	1024 x 768 (4:3)	1920 x 1080 (16:10)
	Brightness (cd/m ²)	450	350	500	500	350
	LCD Color	16.2M	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.1506 x 0.1432	0.1695 x 0.1695	0.1695 x 0.1695	0.24 x 0.24	0.153 x 0.153
	Contrast Ratio	700:1	900:1	1200:1	1200:1	800:1
	Viewing Angle (H-V)	150°/145°	170°/170°	170°/170°	170°/170°	170°/170°
	Backlight MTBF	20000 hours	30000 hours	50000 hours	50,000 hours	50000 hours
Touch	Touch Screen	PCAP with USB interface (anti-UV/AG coating)				
	Touch Controller	EETI EXC 81 Series				
Motherboard	SoC	Intel® Celeron® Processor J6412 1.5M Cache, up to 2.60 GHz / TDP 10W				
	RAM	Dual channel 8GB LPDDR4x on board				
	Ethernet	LAN1: Intel® I225V 2.5GbE controller	LAN1: Intel® I225V 2.5GbE controller LAN2: Intel® I225V 2.5GbE controller			
	Audio Codec	Realtek ALC888S				
	Storage	128GB eMMC (optional)	N/A			
	Expansion	1 x M.2 2242 M key (PCIe Gen3 x1 + SATA)	1 x M.2 M key 2242 (PCIe Gen3 x1 + SATA) 1 x M.2 M key 2280 (PCIe Gen3 x2)			
	I/O Ports & Switch	2 x RS-232/422/485 1 x 2.5GbE LAN 2 x USB 3.2 Gen2 1 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	2 x RS-232 by DB9 2 x RS-232/422/485 by DB9 2 x 2.5GbE RJ45 2 x USB 3.2 Gen2 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			
Audio		AMP 1.2 W (internal speaker)				
Wireless & Bluetooth		IEEE 802.11ax 2T2R module (Wi-Fi 6E) with BT v5.2 (M.2 2230 E-key)				
Physical	Construction Material	Aluminum die casting+SECC				
	Mounting	Wall , Stand , ARM, VESA 75	Wall, Stand, ARM, VESA 75/100			
	Color	Silver+Black				
Environment	Operating Temperature (°C) (Ambient with air flow)	-10 ~ 40	-10 ~ 50			
	Storage Temperature (°C)	-20 ~ 60				
	Humidity	10% to 95%@40°C (non-condensing)				
	Operating Shock	Half-sine wave shock 5G; 11ms; 100 shocks per axis				
	Operating Vibration	MIL-STD-810G 514.6C-1 (with SSD)				
	IP Level	IP 64 compliant front panel				
	Safety & EMC	CE/EMC, UKCA, FCC, RED (Class A)				
	Thermal Solution	Fanless				
Power	12V					
ErP		ErP 2009/125/EC				
OS		Windows 10 IoT/Linux				