

ARCHMI-812BP/R(H)

12.1" Intel Elkhart Lake Fanless Industrial Compact Size PC



Features

- 12.1" Industrial Compact Size Panel PC
- Intel Celeron J6412 Processor
- 1 x 260-pin SO-DIMM DDR4 slot, up to 32GB 3200MHz
- Flat Front Panel Touch Screen with IP66 Front Bezel
- Support Expansion via Full-size Mini-PCle and M.2 slots
- Support TPM2.0 Hardware Security
- DC 9~36V Wide Range Power Input
- High Brightness 1,000 nits for option

Specifications

System				
CPU	Intel Celeron J6412 Processor (2.0 GHz, 1.5MB L2 cache)			
System Chipset	SoC			
Memory	1 x 260-pin SO-DIMM up to 32GB DDR4 3200MHz			
TPM	TPM 2.0			
I/O Port				
USB	2 x USB 3.2 Gen2 type A 2 x USB 2.0 type A			
Serial / Parallel	1 x RS-232/422/485 (Default RS-232; select via BIOS)			
Audio	1 x Line-out			
LAN	2 x 2.5GbE LAN RJ-45 (I226)			
DP	1 x DP, support DP++			
Power	1 x 3-pin Terminal Block Connector 1 x 2-pin Power Switch Connector			
Option	VESA Stand 4G LTE/Wi-Fi 4/5/6+/Bluetooth 4 x USB 2.0 type A (TB-528U4) 4 x USB 2.0 type A + 1 x Mini-PCle + 1 x SIM slot (TB-528U4ME1) 2 x COM (RS-232) (TB-528C2) 1 x COM (RS-232) + 2 x USB 2.0 (TB-528C1U2) 1 x COM (RS-232) + 2 x USB 2.0 + 1 x Power Button (TB-528C1U2P1) 2 x COM (RS-232) + 1 x Mini-PCle slot + 1 x SIM slot (TB-528C2ME1) 2 x COM (RS-422/485, isolated) (TB-528C2I) 2 x CAN (TB-528CAN2) 1 x LAN + 2 x USB 2.0 type A (TB-528E1U2) 1 x 2W Speaker 1 x Auto Dimming 1 x LAN(45W isolated PoE) + 2 x USB 2.0 type A (TB528E1U2UPOE) 1 x Backup Battery 21W/10.8V/1.95Ah(3S1P) *TB-528 series, speaker or backup battery only be in either one			
Storage Space				
Storage	1 x M.2 B-Key slot (Support SATA3; 2242/2280, Default 2242)			
Expansion				
Onboard Expansion Bus	1 x Mini-PCle slot (full size)/ 1 x M.2 E-key/ 1 x Nano SIM Card holder			
Dispalay	Standard		Optional High Brightness	
Display Type	12.1" TFT-LCD		12.1" TFT-LCD	
	default	optional	default	optional
Max. Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Max. Color	16.7M	16.2M	16.7M	16.2M
Luminance (cd/m ²)	450	500	1000	1000
View Angle	176(H)/176(V)	178(H)/178(V)	176(H)/176(V)	178(H)/178(V)
Contrast	1000:1	1000:1	1000:1	1000:1
Backlight Lifetime	50,000 hrs	30,000 hrs	50,000 hrs	70,000 hrs
Touch Screen				
Type	Resistive Touch (for BR Model) Projected Capacitive Touch (for BP Model)			
Interface	USB			
Light Transmission(%)	Resistive Touch: 80% / Projected Capacitive Touch: 90%			

HMI Controller

All specifications and photos are subject to change without notice.

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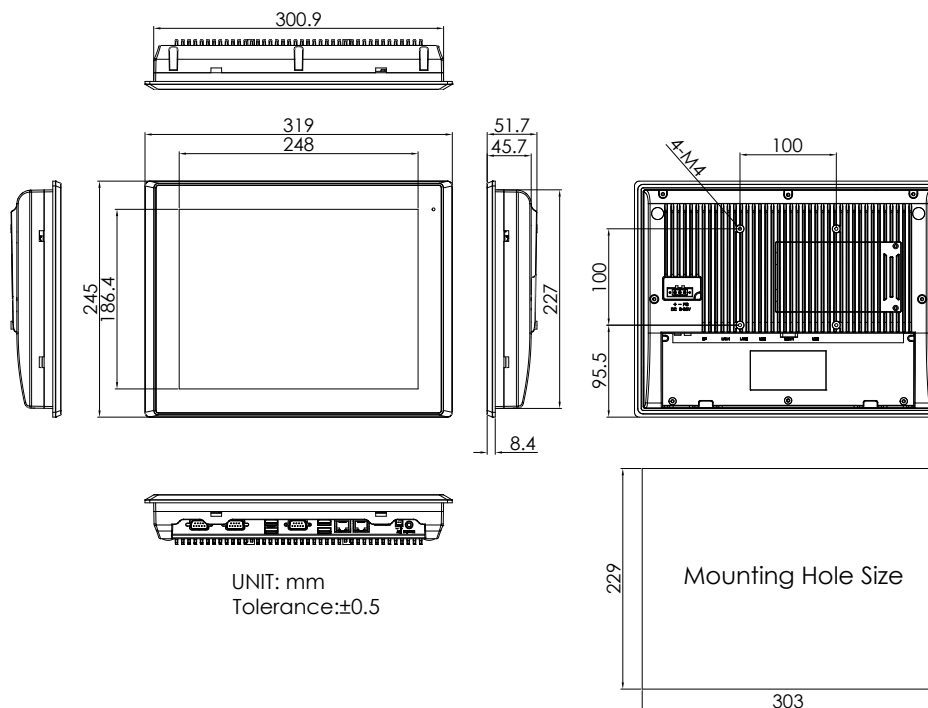
Industrial Panel PC

HMI Controller

Industrial
Display Monitor

Box PC

Dimensions



Power	
Power Input	DC 9~36V
Power Consumption	ARCHMI-812BP/R: 40W
Mechanical	
Construction	Aluminum Die-casting Chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	319 x 245 x 51.7 mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	2.73 kg
Environmental	
Operating Temperature	0~50°C / -20~60°C (option)
Storage Temperature	-30~70°C
Humidity	10 to 95% @ 40°C, non-condensing
Certificate	CE/FCC class B/UL
Operating System Support	
Windows 10 IoT, Windows 11 IoT	

Ordering Information	
ARCHMI-812BR	12.1" SVGA/XGA fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.
ARCHMI-812BP	12.1" SVGA/XGA fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.
ARCHMI-812BR(H)	12.1" High brightness SVGA/XGA fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.
ARCHMI-812BP(H)	12.1" High brightness SVGA/XGA fanless HMI barebone with Intel Celeron J6412 processor, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.

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HMI Controller

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