

ARCHMI-S-812BP/R(H)

12.1" SVGA/XGA Intel Elkhart Lake Platform Fanless Industrial HMI



Features

- 12.1" Industrial Compact Size Panel PC
- Intel Celeron J6412 Processor
- Support 1 x DDR4 3200MHz SO-DIMM, Up to 32GB
- IP66 Compliant Aluminum Front Bezel
- Support Resistive touch screen and Projected Capacitive Multi-touch screen
- Support Auto-Dimming (for option)
- Support High Brightness LCD Version
- Fanless Design
- DC 9~36V Wide Range Power Input

Specifications

System				
CPU	Intel Celeron J6412 Quad Core Processor, 4C/4T, 2.00GHz, TDP is 10W			
System Chipset	SoC			
Memory	1 x DDR4 3200MHz SO-DIMM, up to 32GB			
BIOS	AMI UEFI			
I/O Port				
USB	2 x USB 3.2 Type A, 2 x USB 2.0 Type A			
Serial / Parallel	1 x DB9 RS-485/422/232 (COM1, BIOS selection, RS-232 is default) 1 x DB9 Type RS-232			
Audio	1 x Line-out			
Display	1 x DisplayPort 1.4: Up to 4096 x 2160@60Hz			
LAN	1 x RJ45 Type Intel I210AT 1GbE LAN 1 x RJ45 Type Intel I225LM/I226LM 2.5GbE LAN			
Power	1 x Terminal Block Type, 9-36VDC Power input			
Storage Space				
HDD/SSD	1 x M.2 B-Key 2242/2280 for SSD (SATA3)			
Expansion				
Expansion slot	1 x Mini-PCIe slot (full size, PCIe3.0 x1, USB2.0), with 1 x micro SIM slot 1 x M.2 E-Key 2230 for WiFi/BT module (USB2.0, PCIe3.0x1)			
Storage Space				
TPM	Onboard TPM2.0 SPI I/F TPM IC			
Watchdog Timer	1~255 sec (system)			
Wake on LAN	Support WOL			
Dispalay	Standard		High Brightness by SKU	
Display Type	12.1" TFT-LCD		12.1" TFT-LCD	
Max. Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Max. Color	16.2M	16.2M	16.7M	16.2M
Luminance (cd/m ²)	450	500	1000	1000
View Angle	178(H)/178(V)	178(H)/178(V)	176(H)/176(V)	178(H)/178(V)
Contrast	1500:1	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%			
Power				
Power Input	DC 9~36V			
Power Consumption	ARCHMI-S-812BP/R: 33W(Max)			

HMI Controller

All specifications and photos are subject to change without notice.

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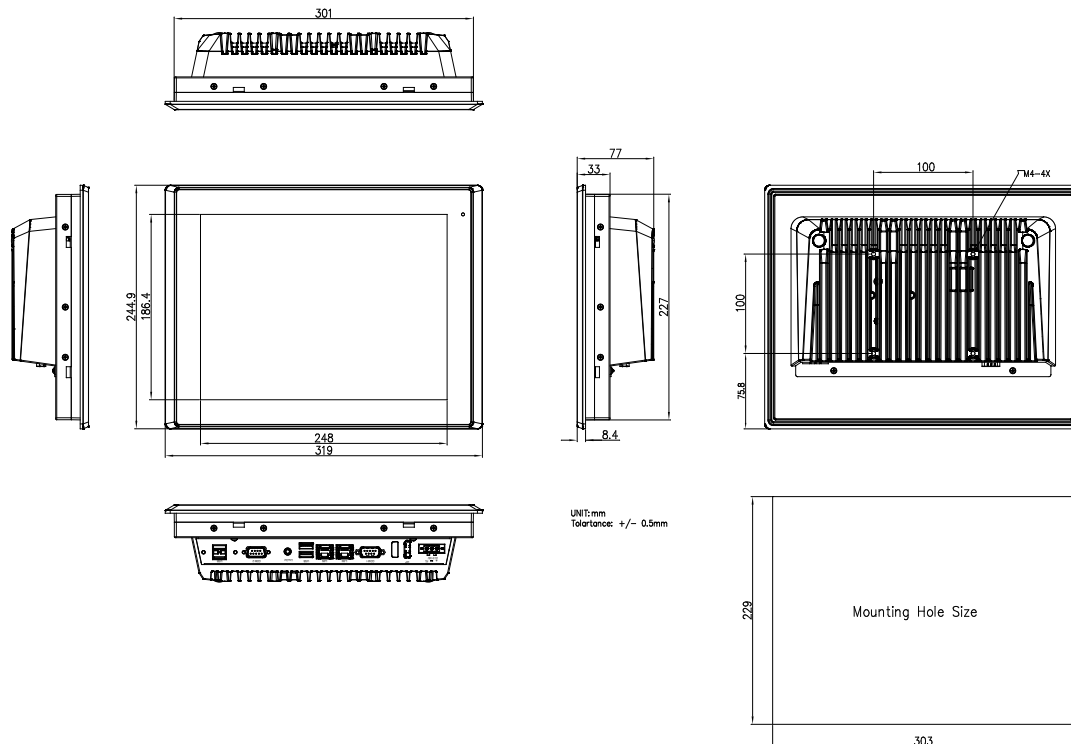
Industrial Panel PC

HMI Controller

Industrial
Display Monitor

Box PC

Dimensions



Mechanical	
Construction	Aluminum Die-casting Chassis
Mounting	Panel Mount, VESA 100 x 100
IP Rating	IP66 Compliant Front Bezel
Dimensions (WxHxD)	314 x 244.9 x 77 mm
Net Weight	3.3 kg
Environmental	
Operating Temperature	-20~60°C
Storage Temperature	-30~70°C
Humidity	10 to 95%@ 40°C, non-condensing
Certificate	CE/FCC class A
Operating System Support	
Windows 10 IoT Enterprise 2021 LTSC	
Windows 11 (21H2) or later	
Linux 18.04 or later	
Ordering Information	
ARCHMI-S-812BP	12.1" SVGA/XGA fanless HMI barebone with Intel Celeron J6412 (2.0 GHz) CPU, 1 x DDR4 slot, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-S-812BR	12.1" SVGA/XGA fanless HMI barebone with Intel Celeron J6412 (2.0 GHz) CPU, 1 x DDR4 slot, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-S-812BPH	12.1" high brightness SVGA/XGA fanless HMI barebone with Intel Celeron J6412 (2.0 GHz) CPU, 1 x DDR4 slot, Projected Capacitive touch, 9~36VDC input with adapter, Aluminum chassis.
ARCHMI-S-812BRH	12.1" high brightness SVGA/XGA fanless HMI barebone with Intel Celeron J6412 (2.0 GHz) CPU, 1 x DDR4 slot, Resistive touch screen, 9~36VDC input with adapter, Aluminum chassis.

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HMI Controller

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