

ARCHMI-S-812WBP/R(H)

12.1" Widescreen WVGA Intel Elkhart Lake Platform Fanless Industrial HMI



Features

- 12.1" Widescreen 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" Wide TFT-LCD	12.1" Wide TFT-LCD
Max. Resolution	1280 x 800	1280 x 800
Max. Color	16.7M	16.7M
Luminance (cd/m ²)	400	1000
View Angle	170(H)/170(V)	176(H)/176(V)
Contrast	1200:1	1000:1
Backlight Lifetime	50,000 hrs	50,000 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-812WBP/R: Around 32.15W	

HMI Controller

All specifications and photos are subject to change without notice.

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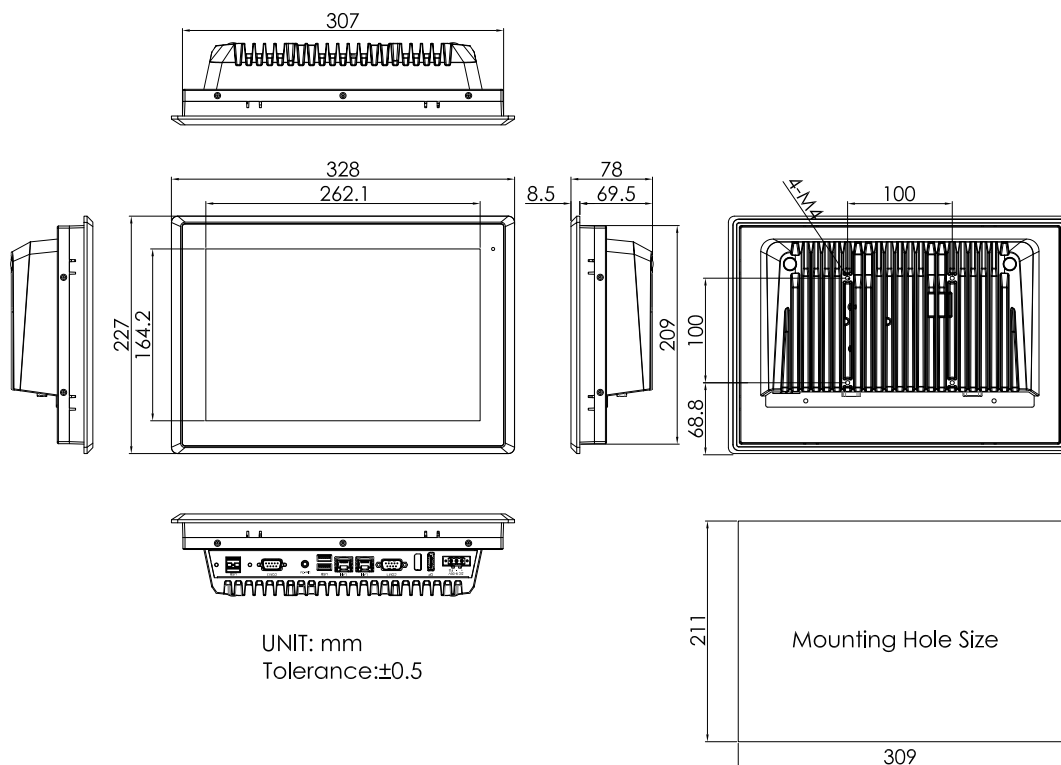
Industrial Panel PC

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)	328 x 227 x 78 mm
Net Weight	3.27 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-812WBP	12.1" WXGA 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-812WBR	12.1" WXGA 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-812WBPH	12.1" high brightness WXGA 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-812WBRH	12.1" high brightness WXGA 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.

V 1.3

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HMI Controller

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