

Features

- 23.8" 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 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)<br>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<br>1 x RJ45 Type Intel I225LM/I226LM 2.5GbE LAN     |
| Power             | 1 x Terminal Block Type, 9-36V DC Power input   |

| Storage Space |   |
|---------------|---|
| HDD/SSD       | 1 x M.2 B-Key 2242/2280 for SSD (SATA3) |

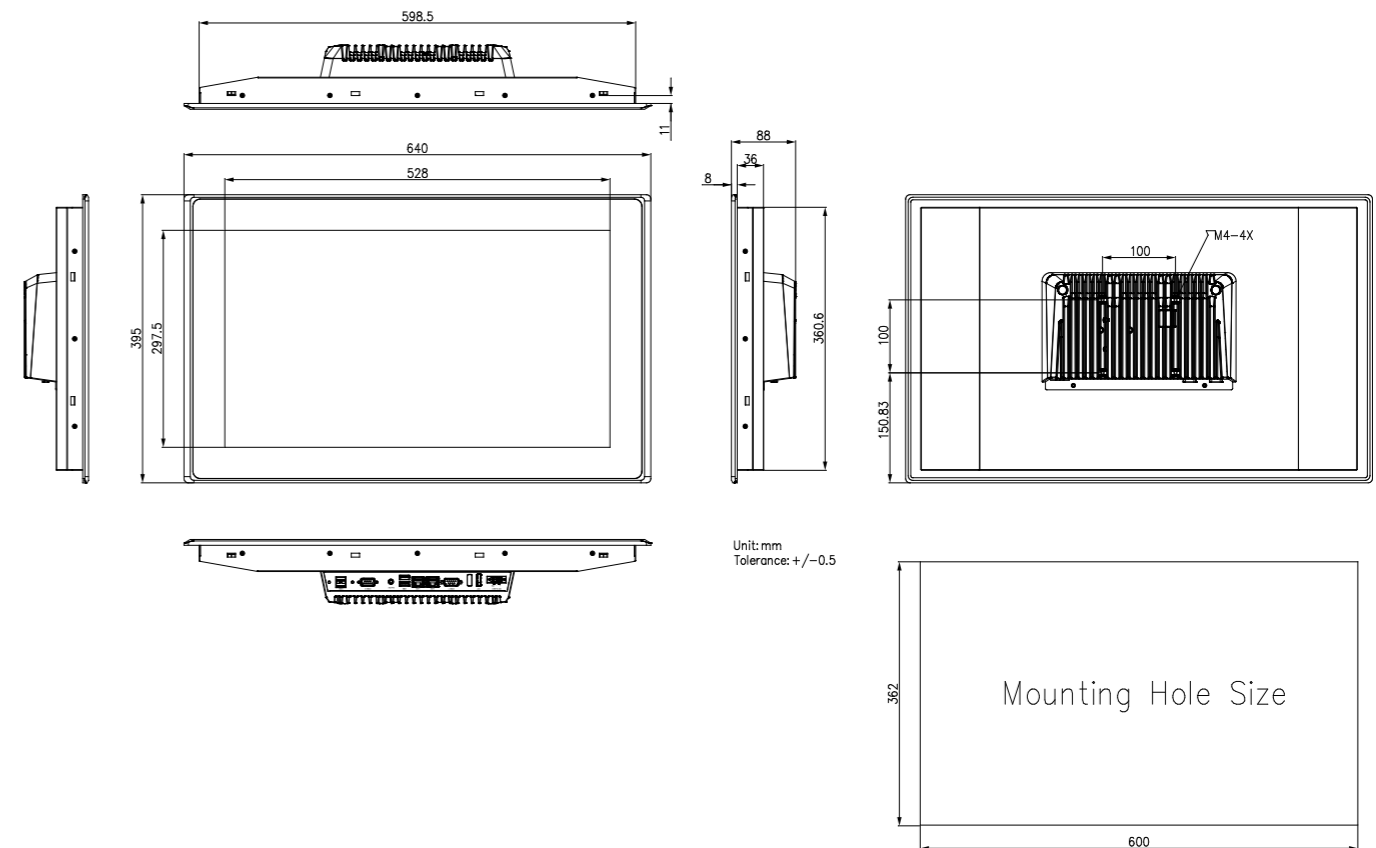
| Expansion      |  |
|----------------|--|
| Expansion slot | 1 x Mini-PCIe slot (full size, PCIe3.0 x1, USB2.0), with 1 x micro SIM slot<br>1 x M.2 E-Key 2230 for WiFi/BT module (USB2.0, PCIe3.0x1) |

| Storage Space  |                               |
|----------------|-------------------------------|
| TPM            | Onboard TPM2.0 SPI I/F TPM IC |
| Watchdog Timer | 1~255 sec (system)            |
| Wake on LAN    | Support WOL                   |

| Display                        | Standard      | High Brightness by SKU |
|--------------------------------|---------------|------------------------|
| Display Type                   | 23.8" TFT-LCD | 23.8" TFT-LCD          |
| Max. Resolution                | 1920 x 1080   | 1920 x 1080, FHD       |
| Max. Color                     | 16.7M         | 16.7M                  |
| Luminance (cd/m <sup>2</sup> ) | 250           | 1,000                  |
| View Angle                     | 178(H)/178(V) | 178(H)/178(V)          |
| Contrast                       | 3,000:1       | 3,000:1                |
| Backlight Lifetime             | 30,000 hrs    | 30,000 hrs             |

| Touch Screen          |                            |
|-----------------------|----------------------------|
| Type                  | Projected Capacitive Touch |
| Interface             | USB                        |
| Light Transmission(%) | 90%                        |

Dimensions



Unit:mm  
Tolerance: +/-0.5

| Power             |                          |
|-------------------|--------------------------|
| Power Input       | DC 9~36V                 |
| Power Consumption | ARCHMI-S-824BP: 43W(Max) |

| Mechanical         |                              |
|--------------------|------------------------------|
| Construction       | Aluminum Die-casting Chassis |
| Mounting           | Panel Mount, VESA 100 x 100  |
| IP Rating          | IP66 Compliant Front Bezel   |
| Dimensions (WxHxD) | 640 x 395 x 88 mm            |
| Net Weight         | 9.43 kg                      |

| Environmental         |                                 |
|-----------------------|---------------------------------|
| Operating Temperature | 0~50°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-824BP       | 23.8" FHD 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-824BPH      | 23.8" high brightness FHD 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. |