# ARCHMI-S-819BP/R(H)

## 19" SXGA Intel Elkhart Lake Platform Fanless Industrial HMI

## Features

- 19" 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)<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 M-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) |

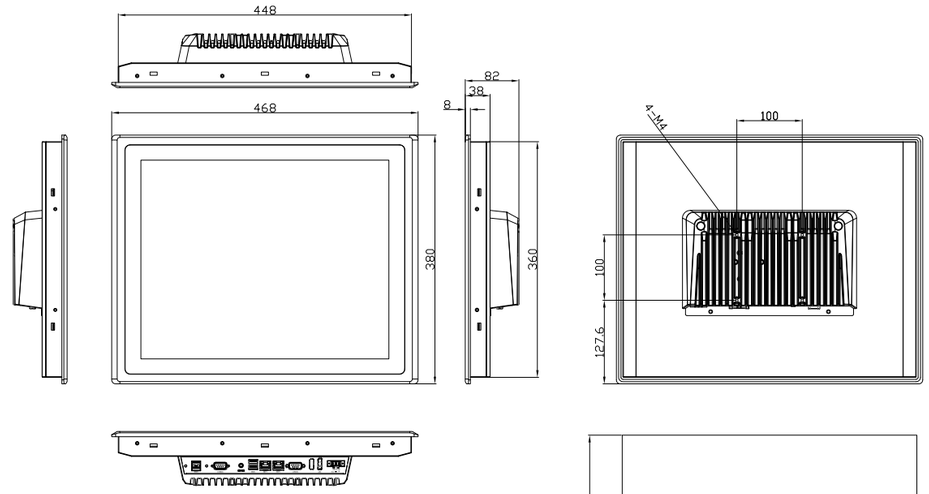
| Storage Space | |
|---|---|
| TPM | Onboard TPM2.0 SPI I/F TPM IC |
| Watchdog Timer | 1~255 sec (system) |
| Wake on LAN | Support WOL |

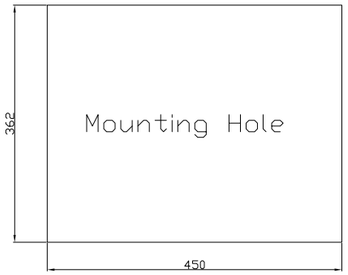
| Dispalay | Standard | High Brightness by SKU |
|---|---|---|
| Display Type | 19" TFT-LCD | 19" TFT-LCD |
| Max. Resolution | 1280 x 1024 | 1280 x 1024 |
| Max. Color | 16.7M | 16.7M |
| Luminance (cd/m$^2$) | 350 | 1,000 |
| View Angle | 170(H)/160(V) | 170(H)/160(V) |
| Contrast | 1,000:1 | 1200:1 |
| Backlight Lifetime | 50,000 hrs | 50,000 hrs |

| Touch Screen | |
|---|---|
| Type | Resistive Touch (for BR Model)<br>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-819BP/R: 50W(Max) |

## Dimensions




| Mechanical | |
|---|---|
| Construction | Aluminum Die-casting Chassis |
| Mounting | Panel Mount, VESA 100 x 100 |
| IP Rating | IP66 Compliant Front Bezel |
| Dimensions (WxHxD) | 468 x 380 x 82 mm |
| Net Weight | 7.23 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<br>Windows 11 (21H2) or later<br>Linux 18.04 or later |

| Ordering Information | |
|---|---|
| ARCHMI-S-819BP | 19" SXGA 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-819BR | 19" SXGA 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-819BPH | 19" high brightness SXGA 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-819BRH | 19" high brightness SXGA 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. |



All specifications and photos are subject to change without notice.

HMI Controller