



Features

- 10.1" Industrial Compact Size Panel PC
- Intel Celeron N97/X7425E Processor (Alder Lake-N)
- 1 x DDR5-4800MHz SO-DIMM socket, 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 (for option)
- Fanless Design
- DC 9~36V Wide Range Power Input

Specifications

| System            |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| CPU               | Intel N97 Processor, 4C/4T, 2.0GHz, TDP is 12W<br>Intel Atom x7425E, 4C/4T, 1.50GHz, TDP is 12W                      |
| System Chipset    | SoC                                                                                                                  |
| Memory            | 1 x DDR5-4800MHz SO-DIMM socket, up to 32GB (Alder Lake-N)                                                           |
| BIOS              | AMI UEFI                                                                                                             |
| I/O Port          |                                                                                                                      |
| USB               | 2 x USB 3.2 Gen1 Type-A, 2 x USB 2.0 Type-A<br>1 x DB9 Type RS-232/422/485 (COM1, BIOS selection, RS-232 is default) |
| Serial / Parallel | 1 x DB9 Type RS-232/422/485 (COM2, BIOS selection, RS-232 is default)<br>1 x DB9 Type RS-232(COM3)                   |
| LAN               | 2 x RJ-45 Type Intel I226V/IT 2.5GbE LAN (PXE/WOL)                                                                   |
| Power             | 1 x Terminal Block Type, DC 9~36V Power Input                                                                        |

| Storage Space |                                                                     |
|---------------|---------------------------------------------------------------------|
| HDD/SSD       | 1 x M.2 2280 M-Key socket (SATA 3.0, PCIe x1), Default is SATA Type |

| Expansion      |                                                                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expansion slot | 1 x M.2 2230 E-Key (USB2.0, PCIe x1) for optional Wi-Fi/BT Module<br>1 x M.2 2242/3402/3052 B-Key (PCIe x1, USB3.2 Gen1, USB2.0) for optional LTE/5G Module<br>1 x Nano-SIM slot |

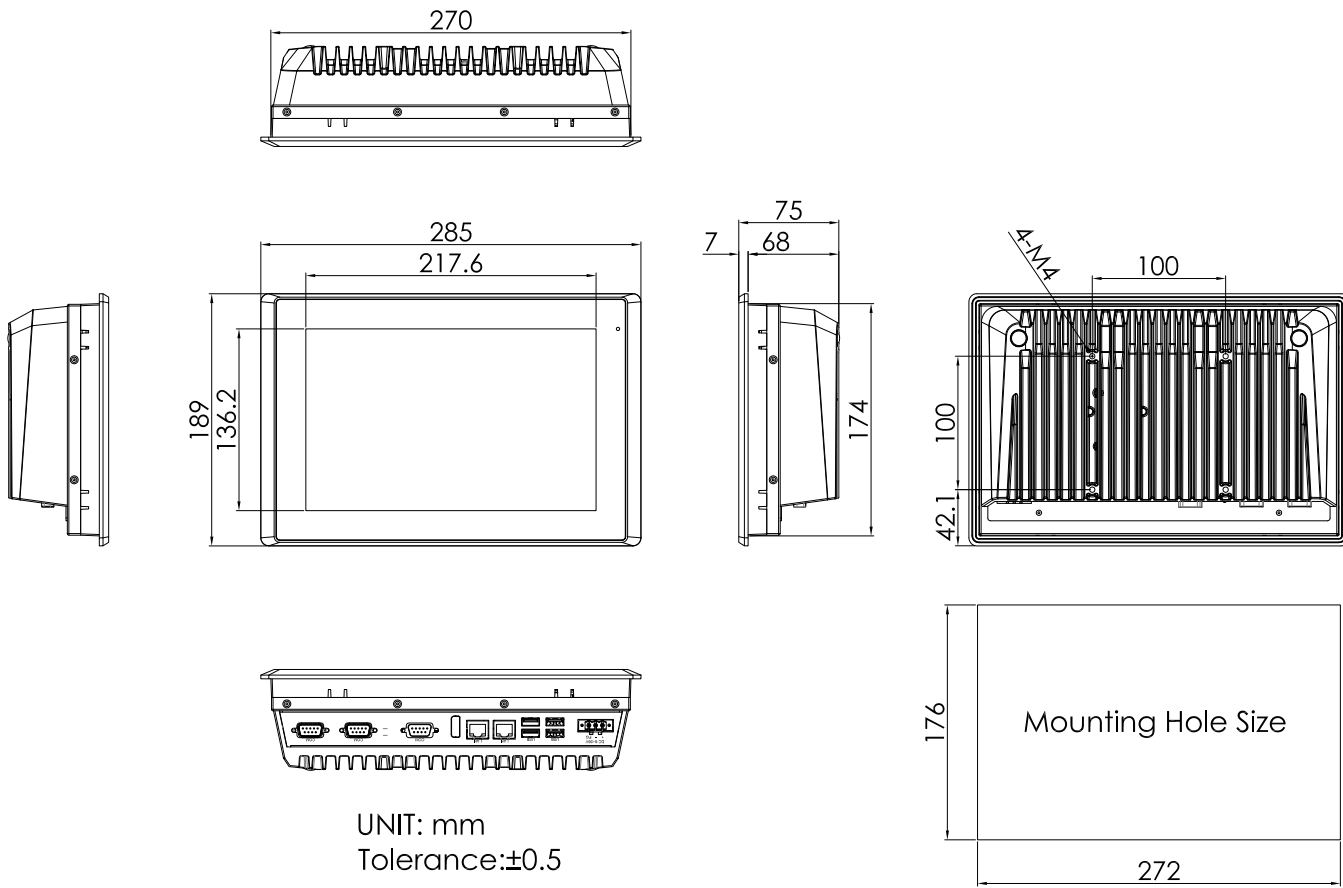
| Storage Space  |                               |
|----------------|-------------------------------|
| TPM            | Onboard TPM2.0 SPI I/F TPM IC |
| Watchdog Timer | 1~255 sec (system)            |
| Wake on LAN    | Support WOL                   |

| Dispalay                       | Standard      | High Brightness by SKU |
|--------------------------------|---------------|------------------------|
| Display Type                   | 10.1" TFT-LCD | 10.1" TFT-LCD          |
| Max. Resolution                | 1280 x 800    | 1280 x 600             |
| Max. Color                     | 16.7M         | 16.7M                  |
| Luminance (cd/m <sup>2</sup> ) | 350           | 1000                   |
| View Angle                     | 170(H)/170(V) | 178(H)/178(V)          |
| Contrast                       | 800:1         | 1200:1                 |
| Backlight Lifetime             | 30,000 hrs    | 50,000 hrs             |

| Touch Screen          |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Type                  | Resistive Touch (for CR Model)<br>Projected Capacitive Touch (for CP Model) |
| Interface             | USB 2.0                                                                     |
| Light Transmission(%) | Resistive Touch: 80% / Projected Capacitive Touch: 90%                      |

| Power             |                              |
|-------------------|------------------------------|
| Power Input       | DC 9~36V                     |
| Power Consumption | ARCHMI-S-810CP/R: Around 37W |

Dimensions



UNIT: mm  
Tolerance:±0.5

| Mechanical         |                              |
|--------------------|------------------------------|
| Construction       | Aluminum Die-casting Chassis |
| Mounting           | Panel Mount, VESA 100 x 100  |
| IP Rating          | IP66 Compliant Front Bezel   |
| Dimensions (WxHxD) | 285 x 189 x 75 mm            |
| Net Weight         | 2.57 kg                      |

| Environmental         |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Operating Temperature | Standard : -20~60°C (w/ WT RAM/SSD)<br>High Brightness : 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 22.04 or later |  |

| Ordering Information |                                                                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ARCHMI-S-810CP       | 10.1" WXGA fanless HMI barebone with Intel Alder Lake-N CPU, 1 x DDR5 slot, Projected Capacitive touch, DC 9~36V input with adapter, Aluminum chassis.                 |
| ARCHMI-S-810CR       | 10.1" WXGA fanless HMI barebone with Intel Alder Lake-N CPU, 1 x DDR5 slot, Resistive touch screen, DC 9~36V input with adapter, Aluminum chassis.                     |
| ARCHMI-S-810CPH      | 10.1" WXGA High brightness fanless HMI barebone with Intel Alder Lake-N CPU, 1 x DDR5 slot, Projected Capacitive touch, DC 9~36V input with adapter, Aluminum chassis. |
| ARCHMI-S-810CRH      | 10.1" WXGA High brightness fanless HMI barebone with Intel Alder Lake-N CPU, 1 x DDR5 slot, Resistive touch screen, DC 9~36V input with adapter, Aluminum chassis.     |