



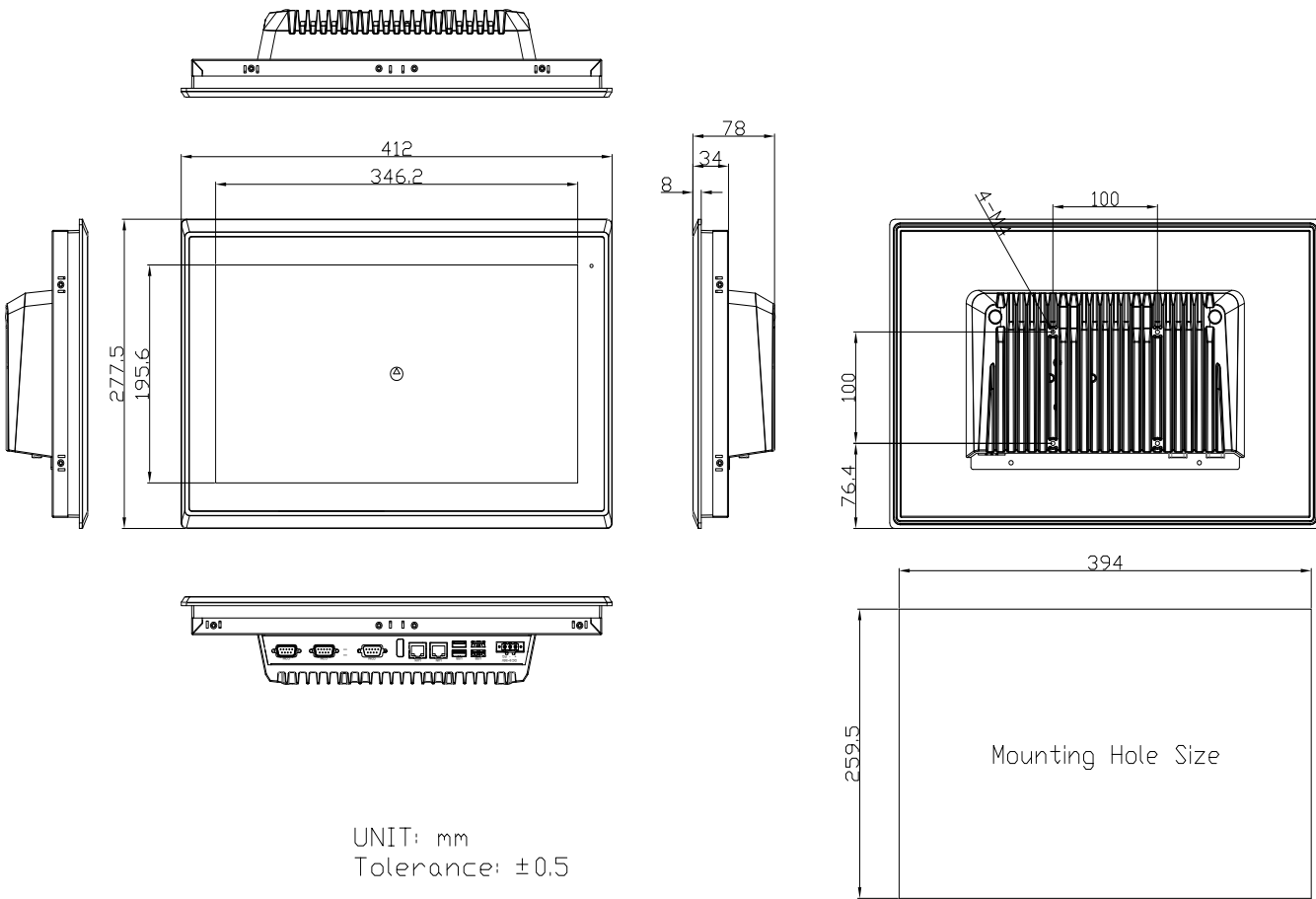
Features

- 15.6" 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><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                   | 15.6" TFT-LCD                                                                                                                                                                    | 15.6" TFT-LCD          |
| Max. Resolution                | 1920 x 1080                                                                                                                                                                      | 1920 x 1080            |
| Max. Color                     | 16.7M                                                                                                                                                                            | 16.7M                  |
| Luminance (cd/m <sup>2</sup> ) | 500                                                                                                                                                                              | 1000                   |
| View Angle                     | 178(H)/178(V)                                                                                                                                                                    | 170(H)/170(V)          |
| Contrast                       | 1000:1                                                                                                                                                                           | 1000:1                 |
| Backlight Lifetime             | 50,000 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-816CP/R: Around 47W                                                                                                                                                     |                        |

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)                                                                    | 412 x 277.5 x 78 mm                                                                                                                                                   |
| Net Weight                                                                            | 4.13 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-816CP                                                                        | 15.6" FHD 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-816CR                                                                        | 15.6" FHD 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-816CPH                                                                       | 15.6" FHD 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-816CRH                                                                       | 15.6" FHD 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.     |