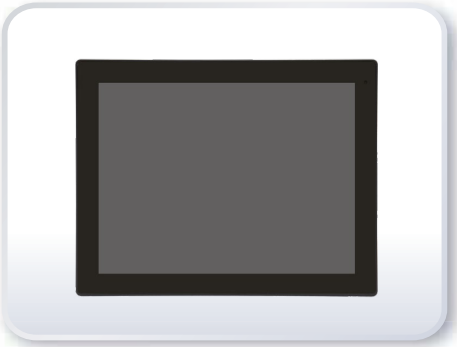
# AiTRON-812CP(H)

## 12.1" XGA Intel N97 Platform Fanless Industrial Multitouch Panel PC





## Features

- 12.1" Industrial Grade Multitouch Panel PC
- Intel Alder Lake-N Processor
- Support 1 x SO-DIMM DDR5 4800MHz
- 7H Anti-scratch Projected Capacitive Multi-touch Screen
- IP66 Compliant Aluminum Narrow Bezel Design
- Fanless Design
- DC 9~36V Wide Range Power Input
- Support Auto-Dimming (optional)
- High Brightness 1,000 nits (optional)

## Specifications

| System | |
|---|---|
| CPU | Intel N97 Processor, Quad Core 2.0GHz, TDP is 12W<br>Intel Atom x7425E, Quad Core 1.5GHz, TDP is 12W |
| System Chipset | SoC |
| BIOS | AMI UEFI |
| System Memory | 1 x DDR5-4800MHz SO-DIMM, up to 32GB |

| I/O Port | |
|---|---|
| USB | 2 x USB 3.2 Gen1 Type-A, 2 x USB 2.0 Type-A (optional) |
| Serial | 1 x DB9, supports RS-232/422/485 (COM1, BIOS selection, RS-232 is default)<br>1 x DB9, supports RS-232/422/485 (COM2, BIOS selection, RS-232 is default), optional<br>1 x DB9, supports RS-232 (COM3), optional |
| Display | 1 x HDMI 1.4: Up to 4096 x 2160@30Hz |
| LAN | 2 x RJ-45, support Intel I226V/IT 2.5GbE LAN |
| Power | 1 x Terminal Block, supports DC 9~36V Power Input |

| Storage Space | |
|---|---|
| HDD/SSD | 1 x M.2 2280 M-Key socket (SATA 3.0 and PCIe 3.0 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 3042/3052 B-Key (PCIe x1, USB3.2 Gen1, USB2.0) for optional LTE/5G module<br>1 x Nano-SIM slot |

| Others | |
|---|---|
| TPM | Onboard TPM2.0 |
| Watchdog Timer | 1~255 sec (system) |
| Wake on LAN | Support WOL |

| Dispalay | Standard | High Brightness Optional |
|---|---|---|
| Display Type | 12.1" TFT-LCD | 10.1" TFT-LCD |
| Max. Resolution | 1024 x 768 | 1024 x 768 |
| Max. Color | 16.2M | 16.7M |
| Luminance (cd/m$^2$) | 350 | 1000 |
| View Angle | 170(H)/170(V) | 178(H)/178(V) |
| Contrast | 800:1 | 800:1 |
| Backlight Lifetime | 30,000 hrs | 70,000 hrs |

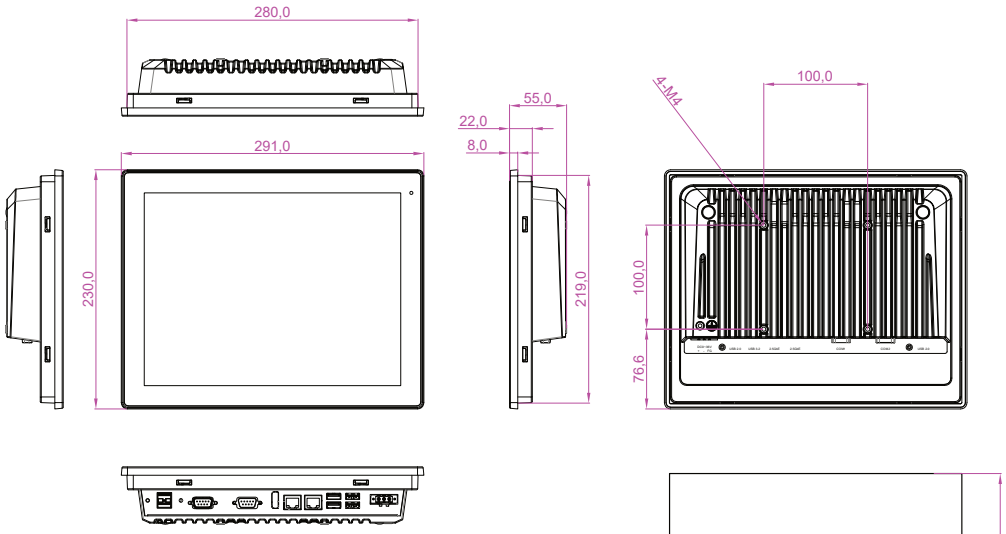
| Touch Screen | |
|---|---|
| Type | Projected Capacitive Touch |
| Interface | USB |
| Light Transmission(%) | 90% |



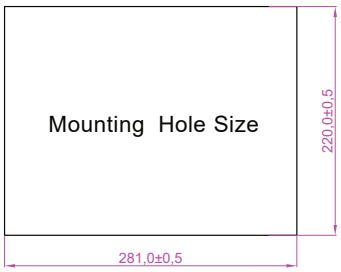
All specifications and photos are subject to change without notice.

Sistemi Avanzati Elettronici S.r.l.
Via Marconi, 11D - 13836 Cossato (BI)
+39 015 983206 | info@sisav.it | www.sisav.it

## Dimensions




UNIT: mm
Tolerance:±0.5




| Power | |
|---|---|
| Power Input | DC 9~36V |
| Power Consumption | 38.41W |

| Mechanical | |
|---|---|
| Construction | Aluminum Die-casting Chassis |
| Mounting | Panel Mount, VESA 100 x 100 |
| Dimensions (WxHxD) | 291 x 230 x 55 mm |
| IP Rating | IP66 Compliant Front Bezel |
| Net Weight | 2.31 kg |

| Environmental | |
|---|---|
| Operating Temperature | Standard: -20~60˚C<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 or later, Windows 11 (22H2) or later, Linux 24.04 or later |

| Ordering Information | |
|---|---|
| AiTRON-812CP | 12.1" XGA fanless HMI barebone with Intel N97 CPU, 1 x DDR5 slot, 1 x M.2 2280 M-Key slot, 1 x M.2 E-key slot, 1 x M.2 B-key slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis. |
| AiTRON-812CPH | 12.1" XGA High Brightness fanless HMI barebone with Intel N97 CPU, 1 x DDR5 slot, 1 x M.2 2280 M-Key slot, 1 x M.2 E-key slot, 1 x M.2 B-key slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis. |

V 1.0



All specifications and photos are subject to change without notice.

Sistemi Avanzati Elettronici S.r.l.
Via Marconi, 11D - 13836 Cossato (BI)
+39 015 983206 | info@sisav.it | www.sisav.it