

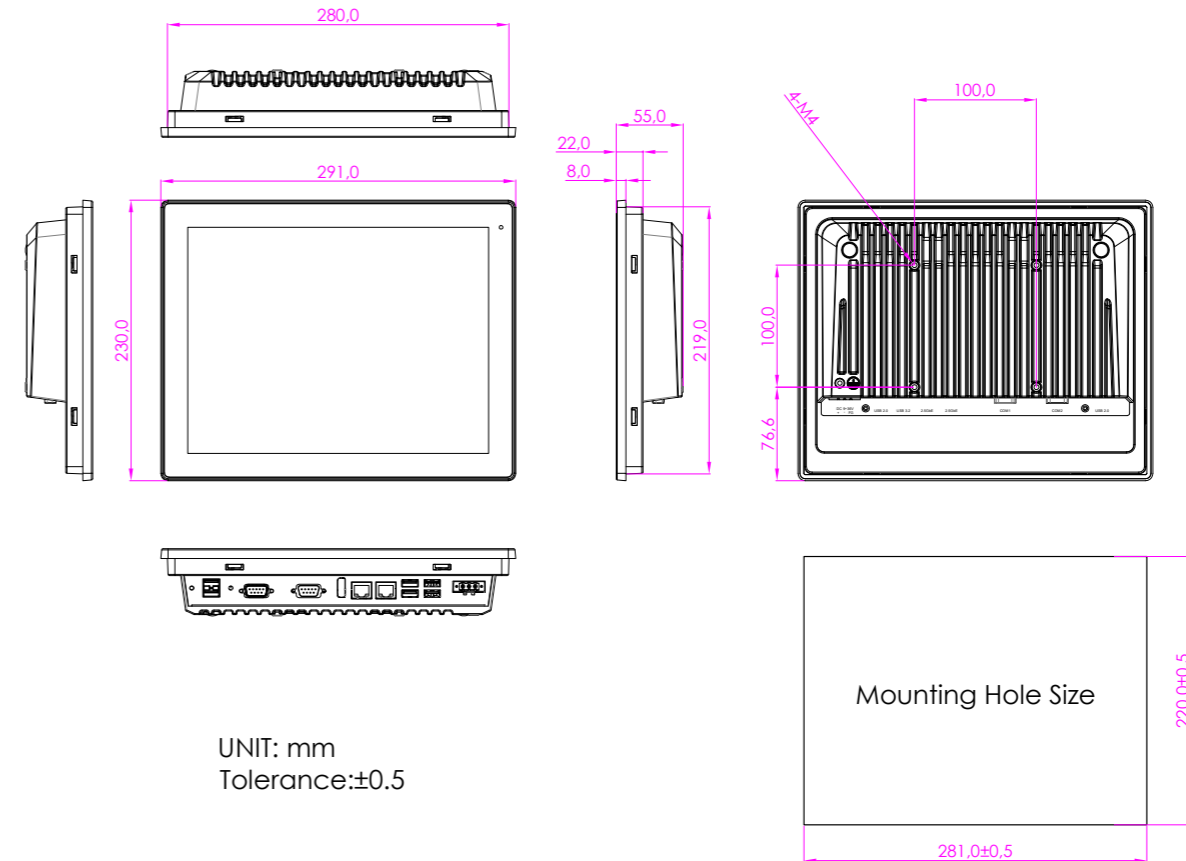
## Features

- 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 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)	
	1 x DB9, supports RS-232/422/485 (COM2, BIOS selection, RS-232 is default), optional	
	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	
	1 x M.2 3042/3052 B-Key (PCIe x1, USB3.2 Gen1, USB2.0) for optional LTE/5G module	
	1 x Nano-SIM slot	
Others		
TPM	Onboard TPM2.0	
Watchdog Timer	1~255 sec (system)	
Wake on LAN	Support WOL	
Display		
	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 <sup>2</sup> )	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%	

## Dimensions



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 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.