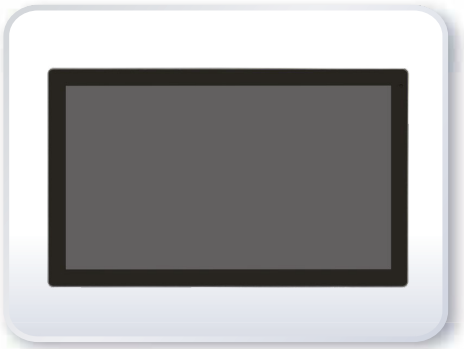
AiTRON-821CP(H)

21.5" FHD Intel N97 Platform Fanless Industrial Multitouch Panel PC





Features

- 21.5" Industrial Grade Multi-touch 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 Edge 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

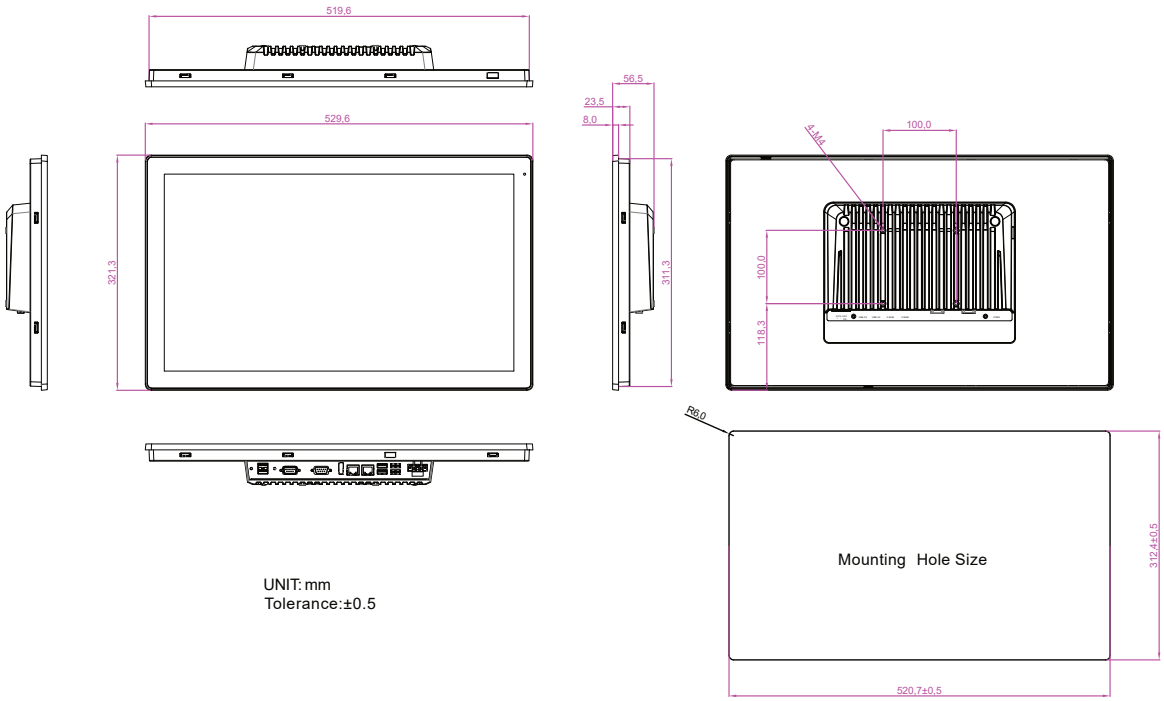
Dispalay	Standard	High Brightness Optional
Display Type	21.5" TFT-LCD	21.5" TFT-LCD
Max. Resolution	1920 x 1080	1920 x 1080
Max. Color	16.7M	16.7M
Luminance (cd/m^2)	250	1000
View Angle	178(H)/178(V)	178(H)/178(V)
Contrast	1000:1	1000:1
Backlight Lifetime	50,000 hrs	50,000 hrs

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

All specifications and photos are subject to change without notice.

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Dimensions



UNIT: mm
Tolerance:±0.5

Power	
Power Input	DC 9~36V
Power Consumption	47.52W

Mechanical	
Construction	Aluminum Die-casting Chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	529.6 x 321.3 x 56.5 mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	5.14 kg

Environmental	
Operating Temperature	0~50˚C
Storage Temperature	-10~60˚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-821CP	21.5" FHD 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-821CPH	21.5" FHD 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.

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