

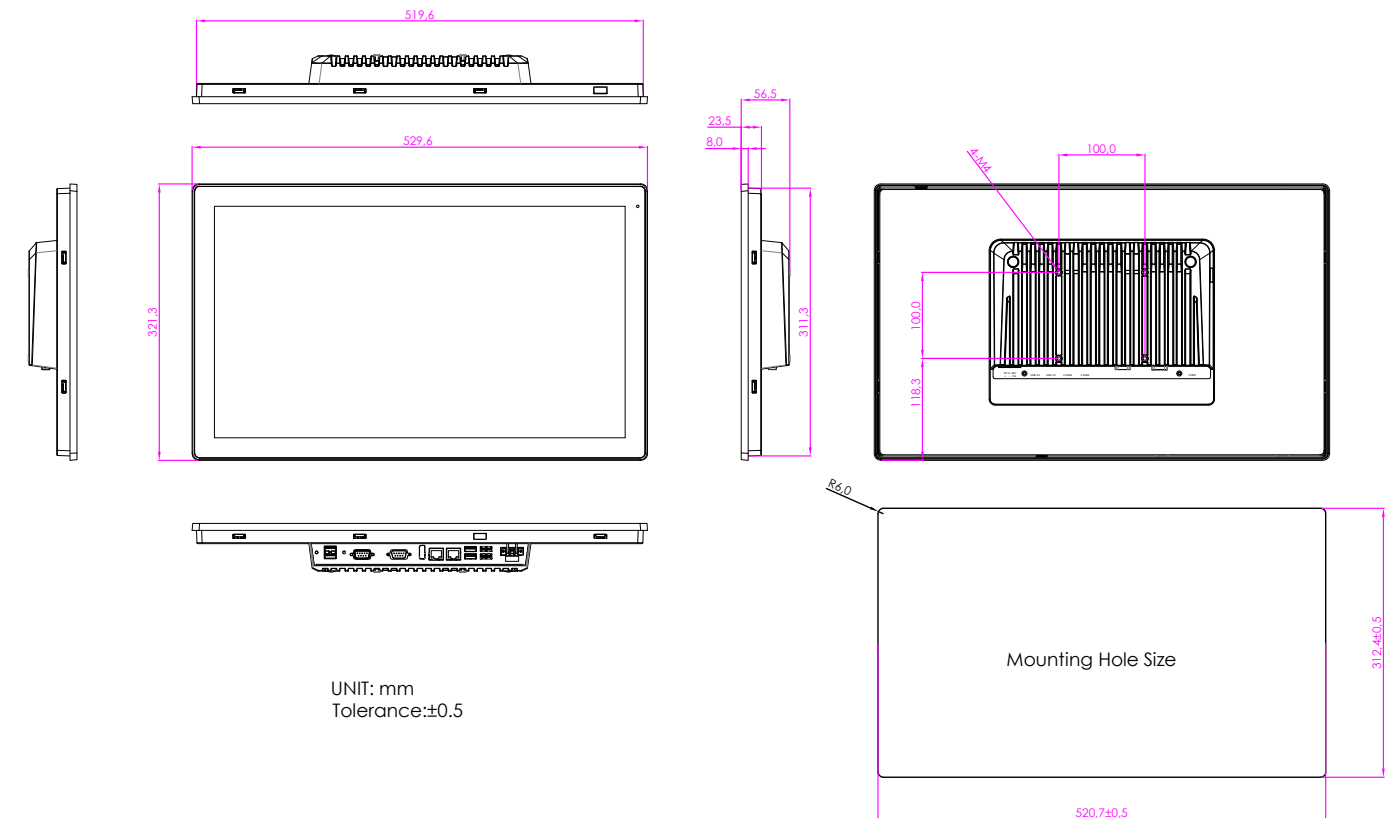
Features

- 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%	

Dimensions



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.