

Features

- 21.5" Industrial Compact Size Panel PC
- Intel Celeron N2930(1.83GHz) CPU built-in / Atom E3845(1.91GHz) for option
- Onboard 4GB DDR3L 1333MHz/8GB(option)
- Flat Front Panel Touch Screen and Fanless Design
- DC 9~36V Wide-Ranging Power Input
- IP66 Compliant Front Panel
- Optional Projected Capacitive Touch Screen Support 7H Anti-Scratch Surface
- High Brightness 1,000 nits for Option

Specifications

System	
CPU	Onboard Intel Celeron N2930(1.83GHz) Onboard Intel Atom E3845(1.91GHz) for option
System Chipset	SoC
Memory	Onboard 4GB DDR3L 1333MHz/8GB(option)

I/O Port	
USB	2 x USB 3.0 type A
Serial / Parallel	1 x DB-9 RS-232/422/485, COM1 (Default RS-232) 1 x RS-232 DB-9, COM2
Audio	1 x Audio Line Out
LAN	2 x GbE LAN RJ-45
Power	1 x 3-pin DC power input terminal 1 x 2-pin connector for power on/off button

Option	
VESA Stand	4G LTE/Wi-Fi/BT
4 x USB 2.0 (TB-528U4)	4 x USB 2.0 + 1 x Mini PCIe + 1 x SIM slot (TB-528U4ME1)
1 x COM + 2 x USB 2.0 (TB-528C1U2)	1 x COM (RS-232) + 2 x USB 2.0 + 1 x Power Button (TB-528C1U2P1)
2 x COM (TB-528C2)	2 x COM (TB-528C2)
2 x COM + 1 x Mini PCIe slot + 1 x SIM slot (TB-528C2ME1)	2 x COM (RS-232/485, isolated) (TB-528C2)
2 x CAN (TB-528CAN2)	2 x CAN (TB-528CAN2)
1 x LAN + 2 x USB 2.0 (TB-528E1U2)	1 x LAN + 2 x USB 2.0, 45W PoE (TB-528E1U2UPOE)
1 x LAN + 2 x USB 2.0, 45W PoE (TB-528E1U2UPOE)	UPS Battery 21W/10.8Wh/1.95Ah(3S1P)
UPS Battery 21W/10.8Wh/1.95Ah(3S1P)	System is only allowed to build in either TB-528 PoE series or UPS battery

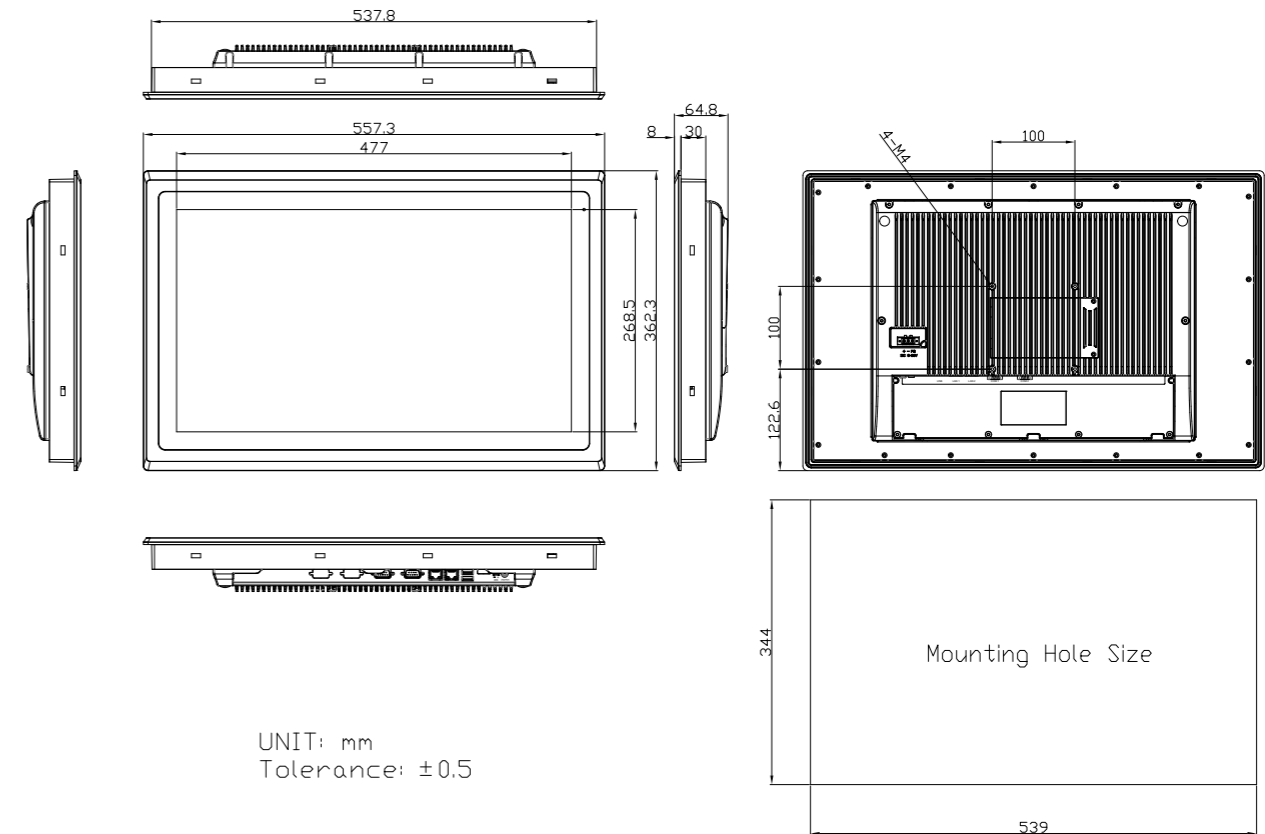
Storage Space	
HDD	1 x 2.5" SATA HDD bay for SATA HDD (Easy Accessible)
Movable Device	1 x SD card slot, up to 32GB

Expansion	
Expansion Slot	1 x Internal Mini-PCIe slot full size

Display	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	3000:1	3000:1
Backlight Lifetime	30,000 hrs	50,000 hrs

Touch Screen	
Type	Resistive Touch (for R model) Projected Capacitive Touch (for P model) Glass (for G model)
Interface	USB
Light Transmission(%)	Resistive Touch Window: over 80% Projected Capacitive Touch: over 90%

Dimensions



Power	
Power Input	DC 9~36V
Power Consumption	ARCHMI-821P: 42W (MAX)

Mechanical	
Color	RAL 9007
Construction	Aluminum die-casting chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	557.3 x 362.3 x 64.8 mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	7.5 kg

Environmental	
Operating Temperature	0~50°C (0~40°C for high brightness model)
Storage Temperature	-30~70°C
Humidity	10 to 95%@ 40°C, non-condensing
Certificate	CE/FCC Class A/CB/UL

Operating System Support	
Windows 10 IoT	

Ordering Information	
ARCHMI-821	21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Resistive touch screen, DC 9~36V input with adapter, Aluminum chassis
ARCHMI-821P	21.5" FHD Fanless HMI barebone with Intel N2930 1.83G CPU, 2GB DDR3L RAM, Projected Capacitive touch screen, DC 9~36V input with adapter, Aluminum chassis
ARCHMI-821H	21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Resistive touch screen, DC 9~36V input with adapter, Aluminum chassis, 1,000 nits LCD
ARCHMI-821PH	21.5" FHD fanless HMI barebone with Celeron N2930(1.83.GHz) CPU, 4GB DDR3L RAM, Projected Capacitive touch, DC 9~36V input with adapter, Aluminum chassis, 1,000 nits LCD