

Features

- 12.1" Industrial Compact Size Panel PC
- Intel Apollo Lake N4200/ N3350 (option)
- On Board 4GB/ 8GB DDR3L 1600MHz
- Flat Front Panel Touch Screen
- IP66 Compliant Front Panel
- Optional Projected Capacitive Touchscreen Support 7H Anti-scratch Surface
- DC 9~36V Wide-ranging Power Input
- High Brightness 1,000 nits for option

Specifications

System	
CPU	Intel Pentium N4200 Processor (2M Cache, 1.1GHz) / Celeron N3350 Processor (2M Cache, 1.1GHz)
System Chipset	SoC
Memory	Onboard 4GB DDR3L SDRAM, up to 8GB (option)

I/O Port	
USB	2 x USB 3.0 type A
Serial / Parallel	1 x RS-232/422/485 DB9 (COM1), default RS-232 1 x RS-232 DB9 (COM2)
Audio	1 x Audio Line Out
LAN	2 x GbE LAN RJ-45
Power	1 x 3-pin Terminal Block Connector 1 x 2-pin Power Switch connector

Option	
VESA Stand	
4G LTE/WiFi/ BT	
4 x USB 2.0 type A (TB-528U4)	
4 x USB 2.0 type A + 1 x Mini-PCle + 1 x SIM slot (TB-528U4ME1)	
2 x COM (RS-232) (TB-528C2)	
1 x COM (RS-232) + 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 (RS-232) + 1 x Mini-PCle slot + 1 x SIM slot (TB-528C2ME1)	
2 x COM (RS-422/485, isolated) (TB-528C2I)	
2 x CAN (TB-528CAN2)	
1 x LAN + 2 x USB 2.0 type A (TB-528E1U2)	
1 x LAN(25W non-isolated PoE PD) + 2 x USB 2.0 type A (TB-528NE1U2POE)*	
1 x LAN(25W isolated PoE PD) + 2 x USB 2.0 type A (TB-528E1U2POE)*	
1 x LAN(45W isolated PoE PD) + 2 x USB 2.0 type A (TB528E1U2UPOE)	
Backup Battery 21W/10.8V/1.95Ah(3S1P)	
System is only allowed to build in either I/O board TB-528 series or backup battery	

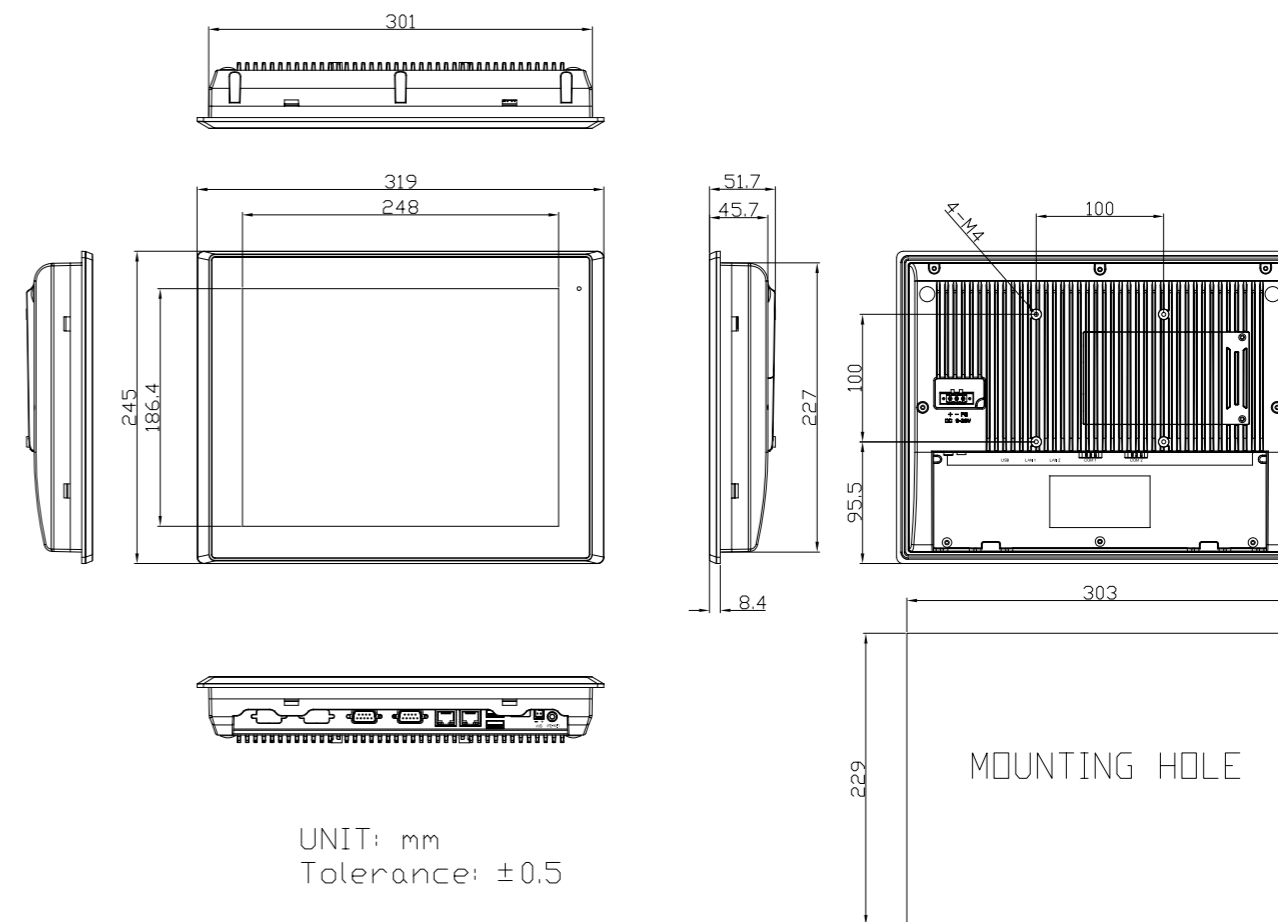
Storage Space	
HDD	1 x 2.5" SATA3 HDD space
Movable Device	1 x Micro SD card slot

Expansion	
Onboard Expansion bus	1 x Mini-PCle slot (full size) 1 x Micro SIM slot

Display	Standard		High Brightness Optional	
Display Type	12.1" TFT-LCD		12.1" TFT-LCD	
Max. Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Max. Color	16.2M	16.2M	16.2M	16.2M
Luminance (cd/m ²)	450	500	1000	1000
View Angle	178(H)/178(V)	178(H)/178(V)	178(H)/178(V)	178(H)/178(V)
Contrast	1500:1	1000:1	700:1	1000:1
Backlight Lifetime	50,000 hrs	30,000 hrs	50,000 hrs	70,000 hrs

Touch Screen	
Type	Resistive Touch (for AR Model) Projected Capacitive Touch (for AP Model)
Interface	USB
Light Transmission(%)	Resistive Touch: 80% Projected Capacitive Touch: 90%

Dimensions



Power	
Power Input	DC 9~36V
Power Consumption	ARCHMI-812AR: 29W (MAX)

Mechanical	
Construction	Aluminum Die-casting Chassis
Mounting	Panel Mount, VESA 100 x 100
Dimensions (WxHxD)	319 x 245 x 51.7 mm
IP Rating	IP66 Compliant Front Bezel
Net Weight	2.8 kg

Environmental	
Operating Temperature	0~50°C / -20~60°C (option)
Storage Temperature	-30~70°C
Humidity	10 to 90%@ 40°C, non-condensing
Certificate	CE/FCC Class A/UL

Operating System Support	
Windows 10 IoT	

*PoE limitation: CPU turbo off, rear I/O no loading, 70% LED backlight, PSE cable length < 50m