



Features

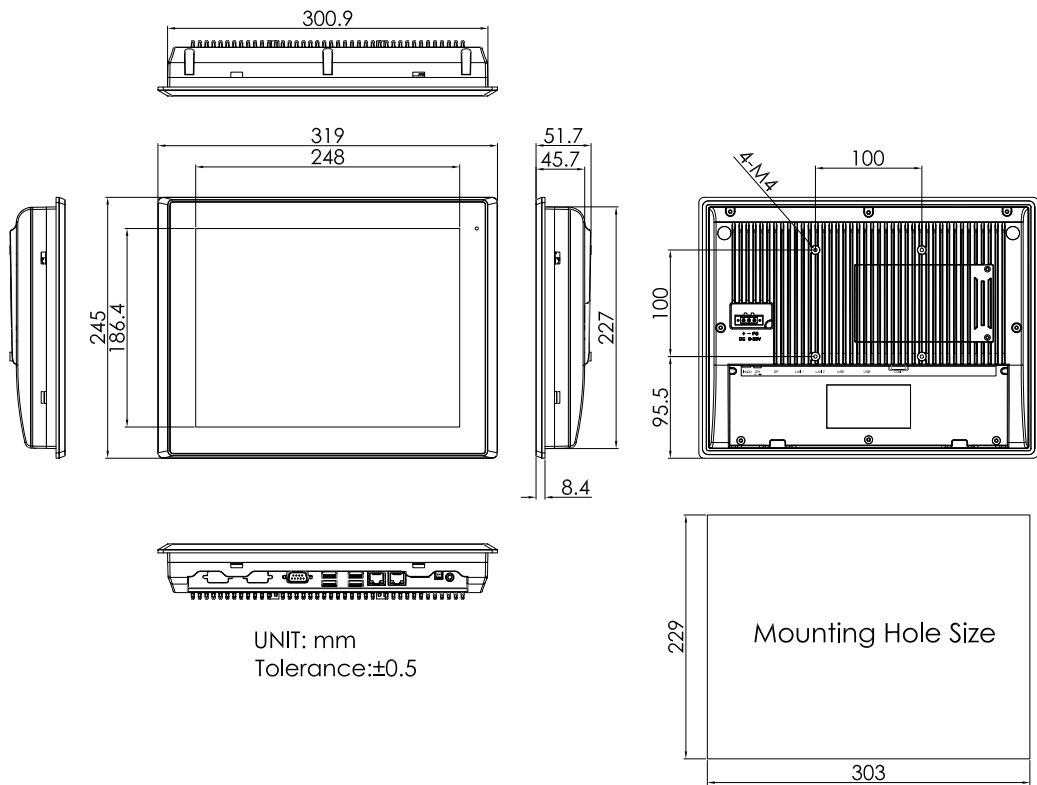
- 12.1" Industrial Compact Size Panel PC
- 8th Gen. Intel Core i3/i5, CPU built-in
- 1 x 260-pin SO-DIMM DDR4 slot, up to 32GB 2400MHz
- Flat Front Panel Touch Screen with IP66 Front Bezel
- Fanless Design
- DC 9~36V Wide-Ranging Power Input
- Support Expansion via Full-size Mini PCIe and M.2 slots
- Support TPM2.0 Hardware Security
- High Brightness 1,000 nits for option

Specifications

System	
CPU	Onboard 8th Gen Intel Corei3-8145UE Processor(2C/4T,2.2GHz)/ Intel Corei5-8365UE Processor(4C/8T,1.6GHz)
System Chipset	SoC
Memory	1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz
TPM	TPM 2.0
I/O Port	
USB	4 x USB 3.0 type A
Serial	1 x DB-9 Connector, Including: * 1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1)
	* 1 x RS-232(Tx, Rx)/ 422/485(COM2) by Y Cable
Audio	1 x Audio Line Out
DP	1 x DP Port
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 4/5/6+ BT
	4 x USB 2.0 type A
	4 x USB 2.0 type A + 1 x Mini-PCIe + 1 x SIM slot
	2 x COM (RS-232)
	1 x COM (RS-232) + 2 x USB 2.0
	1 x COM (RS-232) + 2 x USB 2.0 + 1 x Power Button
	2 x COM (RS-232) + 1 x Mini-PCIe slot + 1 x SIM slot
	2 x COM (RS-422/485, isolated)
	2 x CAN
	1 x LAN + 2 x USB 2.0 type A
	1 x LAN(45W isolated PoE PD) + 2 x USB 2.0 type A
	Backup Battery 21W/10.8V/1.95Ah
	(Series or backup battery only be in either one)
Storage Space	
Storage	1 x M.2 M Key slot (Support PCIe/SATA; 2242/2280, Default 2242)
Expansion	
Onboard expansion bus	
1 x Mini-PCIe slot (full size)	
1 x Nano SIM Card Holder	

Dispalay	Standard		Optional High Brightness	
Display Type	12.1" TFT-LCD		12.1" TFT-LCD	
	default	optional	default	optional
Max. Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Max. Color	16.7M	16.2M	16.7M	16.2M
Luminance (cd/m²)	450	500	1000	1000
View Angle	176(H)/176(V)	178(H)/178(V)	176(H)/176(V)	178(H)/178(V)
Contrast	1000:1	1000:1	1000:1	1000:1
Backlight Lifetime	50,000 hrs	30,000 hrs	50,000 hrs	70,000 hrs

Dimensions



Touch Screen	
Type	Resistive Touch (for R Model) Projected Capacitive Touch (for P Model)
Interface	USB
Light Transmission(%)	Resistive Touch: 80% / Projected Capacitive Touch: 90%
Power	
Power Input	DC 9~36V
Power Consumption	56W (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 95%@ 40°C, non-condensing
Certificate	CE / FCC, Class A
Operating System Support	
Windows 10 IoT, Windows 11	

Ordering Information	
PLP-A5912P	12.1" SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.
PLP-A5912R	12.1" SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.
PLP-A5912PH	12.1" High brightness SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.
PLP-A5912RH	12.1" Hight brightness SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.

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