

PPC-6121

12.1" Panel PC with 8/9th Generation Intel® Core™ i/Celeron® Processor



Features

- 12.1" TFT XGA LCD panel with resistive touch control
- 8th/9th generation Intel® Core™ i/Celeron® processor (thermal power design: 35W)
- 2 x 260-pin SO-DIMM DDR4 2666 MHz (max. 32 GB)
- 1 x M.2 2230 (E key)
- 1 x mSATA bay (SATA SSD + mSATA support RAID 0&1)
- 1 x Optional TPM2.0
- 1 x Optional PCI/PCIe x4 expansion kit
- 1 x Isolated RS422/485 (terminal block)
- 1 x VGA and 1 x HDMI
- Dual GbE with Intel® AMT12.0 support



Introduction

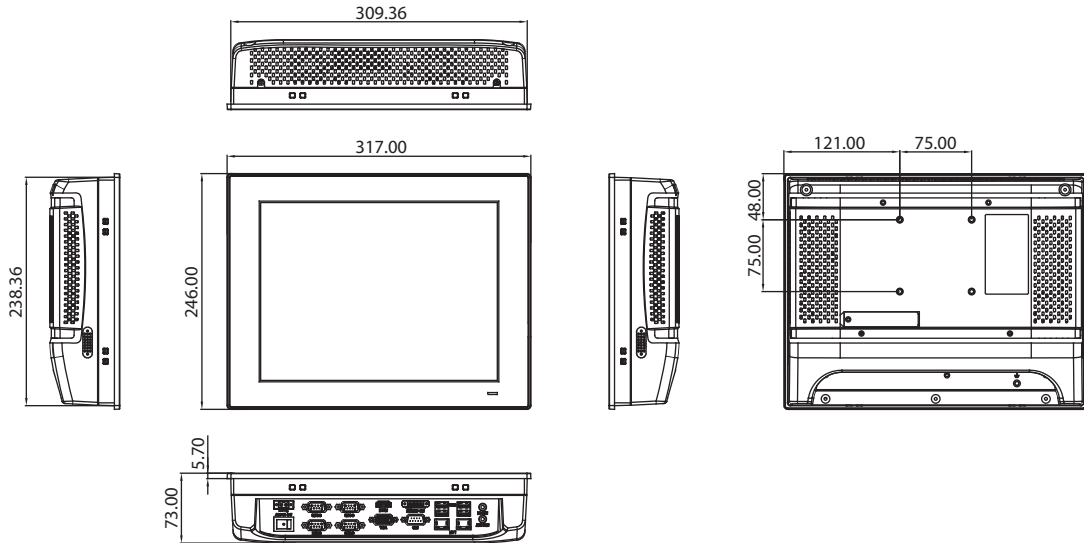
The PPC-6121 is a 12.1" color TFT LCD panel PC that supports 8th/9th generation Intel® Core™ i/Celeron® processors for high-performance computing. Featuring various connectors, PPC-6121 can be easily installed to support diverse application. Additionally, the system's user-friendly interface makes it ideal for information-based applications. The provision of 4 x RS-232, 1 x isolated RS422/485, and dual Intel® Gigabit Ethernet connectors with Intel® AMT support, as well as 1 x expansion slot, makes PPC-6121 a highly reliable and versatile display platform.

Specifications

	CPU	i7-8700T	i5-8500T	i3-8100T	Pentium G5400T	Celeron G4900T	i7-9700TE	i5-9500TE	i3-9100TE	
Processor System	Cores	6	6	4	2	2	8	6	4	
	Frequency	2.4 GHz (up to 4.0 GHz)	2.1 GHz (up to 3.5 GHz)	3.1 GHz	3.1 GHz	2.9 GHz	1.8 GHz (up to 3.8GHz)	2.2 GHz (up to 3.6GHz)	2.2 GHz (up to 3.2GHz)	
	L3 Cache	12 MB	9 MB	6 MB	4 MB	2 MB	12 MB	9 MB	6 MB	
	TDP	35W	35W	35W	35W	35W	35 W	35 W	35 W	
	Chipset	Q370								
	Memory	2 x 260-pin SO-DIMM DDR4 2666 MHz (max. 32 GB)								
	Storage	1 x 2.5" SATA bay; 1 x mSATA bay (SATA SSD+mSATA support RAID 0&1)								
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I219-LM + Intel I211) , supports Intel AMT 12.0 (only i7 /i5 support)								
	I/O ports	4 x RS-232, 1 x RS-422/485 with 1K VDC isolation, 4 x USB3.1 1 x DB15 VGA, 1 x HDMI 1.4 1 x Mic in, 1 x Line out 1 x GPIO(TTL, 8 pin programmable) 1 x TPM2.0 (optional)								
	Expansion	1 x M.2 2230(E key) 1 x PCIe x4 or 1 x PCI (optional)								
	Watchdog Timer	255 timer levels; setup by software								
	Speaker	2 x 1W								
	SYS Fan	40 x 40 x 10 mm (1.57 x 1.57 x 0.39 in)								
	Physical Characteristics	Dimensions	317 x 246 x 73mm(12.48 x 9.69 x 2.87 in)							
Weight		3.8 kg (8.38 lb)								
OS Support	OS Support	Microsoft® Windows 10 64bit, Linux (Ubuntu; Fedora 28)								
Power Consumption	Input Voltage	12 ~ 30V _{DC}								
	Power Consumption	120W (Burn-in test 8.1, Windows 10 64bit, i7-8700T, 16G RAM, 500G HDD)								
LCD Display	Display Type	12.1" TFT LCD panel								
	Max. Resolution	1024 x 768								
	Viewing Angle	89 (left), 89 (right), 89 (up), 89 (down)								
	Luminance (cd/m ²)	600								
	Contrast Ratio	1000								
	Backlight Lifetime	50,000 hr (min.)								
Touchscreen	Touch Type	5-wire resistive								
	Light Transmission	80±5% at 550nm wavelength								
	Controller	USB interface								
	Durability (Touches)	Greater than 35 million touches in one location without failure								

Dimensions

Unit: mm



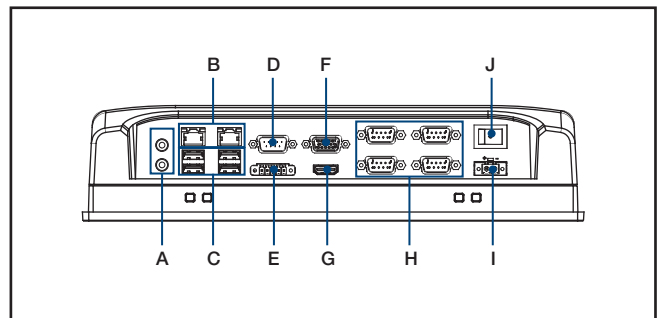
Panel Cutout Dimensions: 311 x 240 mm (12.24 x 9.44 in)

Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F)
	Storage Temperature	-40 ~ 90 °C (-40 ~ 194 °F)
	Relative Humidity	10 ~ 95% @ 40 °C (non-condensing)
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5 ~ 500Hz, 1Grms @with HDD, follow IEC 60068-2-64
	EMC	CE, FCC Class A, BSMI
	Safety	CB, UL,CCC, BSMI
	Front Panel Protection	IP65 compliant

Ordering Information

Part Number	Description
PPC-6121-R81A	12.1" 8th/9th Gen Intel® Core™ i/Celeron® panel PC with resistive touchscreen
PPC-6121-R81AU	12.1" 8th/9th Gen Intel® Core™ i/Celeron® panel PC with resistive touchscreen(for U.S. only)
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M
1702002605	Power Cable 90D 220V EUROPEAN 250V/6A 1.8M
96CB-POWER-B-1.8MA	POWER CORD for China 1.8M
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-ARM-A03	ARM VESA Standard (A-CLEVER) for PPC series
PPC-STAND-A1E	Stand For PPC Series
98R3P612100	TPM module for PPC-6121
PPC-WLAN-C1E	M.2 Wi-Fi Module with Antenna cable support 2T2R
98R36121000	Add-on box for PCI or PCIe expansion (include PCI / PCIe riser card)
96PSA-A150W19P2-3	ADP A/D 100-240V 150W 19V C14 TERMINAL BLOCK 2P

I/O View



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|-------------------------------|---------------------|
| A. 1 x Line-out/ Mic-in | F. 1 x VGA |
| B. 2 x Intel Gigabit Ethernet | G. 1 x HDMI |
| C. 4 x USB3.1 | H. 4 x RS-232 |
| D. 1 x GPIO | I. 1 x DC input |
| E. 1 x isolated RS-422/485 | J. 1 x Power button |