

# PPC-6120

## 12" Panel PC Supporting 4th Generation Intel® Core™ i / Celeron® Processors



### Features

- 12.1" TFT XGA LED Panel with resistive touchscreen
- Supports 4th Generation Intel® Core™ i / Celeron® Processor (Thermal Design Power: 35W/45W)
- System memory supports 2 x 204-pin SODIMM DDR3/DDR3L total up to 16G
- Supports 2 x Mini PCIe sockets, one is included mSATA function.
- Optional one PCI/PCIe x4 expansion kit
- Supports one isolated RS422/485 (terminal block)
- 1 x VGA and 1 x Display port
- Dual GbE, supports Intel AMT9.0



### Introduction

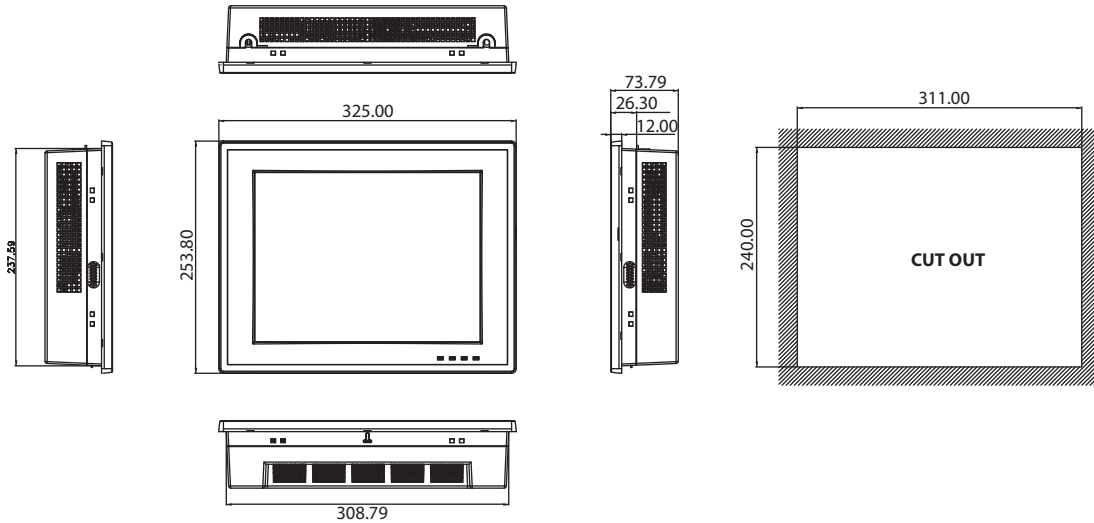
The PPC-6120 is a 12" color TFT LCD Panel PC that supports 4th Generation Intel® Core™ i / Celeron® Processors. It features extremely high computing power, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface makes it a great host for information appliances. Four RS-232, one isolated RS422/485, and Dual Gb Ethernet connectors support Intel® AMT; one expansion slot makes PPC-6120 highly reliable, and provides a great platform for versatile applications.

### Specifications

<b>Processor System</b>	CPU	i7-4770TE	i5-4570TE	i5-4590T	i3-4330TE	i3-4350T	i3-4340TE	Pentium G3320TE	Celeron 1820TE	
	Cores	Quad Core	Dual Core	Quad Core	Dual Core	Dual Core	Dual Core	Dual Core	Dual Core	
	Frequency	2.3GHz	2.7GHz	2.0GHz	2.4GHz	3.1GHz	2.6GHz	2.3GHz	2.2GHz	
	L3 Cache	8MB	4MB	6MB	4MB	4MB	4MB	3MB	2MB	
	TDP	45W	35W	35W	35W	35W	35W	35W	35W	
	Chipset	Q87								
	Memory	2 x SO-DIMM,DDR3 1066/1333; DDR3L 1066/1333, max 16GB								
	Storage	1 x 2.5" SATA Bay 1 x mSATA Bay								
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet, supports Intel AMT9.0 (Intel I211, Intel I217LM)								
	I/O ports	5 x Serial ports: 4 x RS-232, 1 x isolated RS422/485 (1K <sub>Voc</sub> ) 4 x USB 3.0 (Ext.), 2 x USB 2.0 (Int. pin head) 1 x Display Port 1.2 1 x VGA 1 x Line-out, 1 x Mic-in								
	Expansion	1 x Mini PCIe (Default) 1 x PCIe x4 or 1 x PCI (Optional)								
	Watchdog Timer	255 timer levels; setup by software								
	Speaker	2 x 1W								
Fan	1 x 80x80x15 mm									
<b>Physical Characteristics</b>	Dimensions	325 x 253.8 x 73.8 mm (12.80" x9.99" x2.91")								
	Weight	3.8 kg (8.38lb)								
<b>OS Support</b>	OS Support	Microsoft® Windows 7 32bit&64bit/ Windows 8.1 32bit&64bit / Windows 10 32bit&64bit/Linux/WEC7/WES 7P 32bit&64 bit								
<b>Power Consumption</b>	Input Voltage	12 - 30 Vdc								
	Power Consumption	84W with i7-4770TE 65W with i5-4590TE 56W with i3-4330TE 47W with Pentium-G3320TE Burn-in test 7.0 Windows 7 64bit 83W with i7-4770TE 61W with i5-4590TE 54W with i3-4330TE 46W with Pentium-G3320TE (Burn-in test 7.0 Windows 8 64bit)								
<b>LCD Display</b>	Display Type	12.1" TFT LED Panel								
	Max. Resolution	1024 x 768								
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)								
	Luminance (cd/m <sup>2</sup> )	600								
	Contrast Ratio	700								
Backlight Lifetime	50,000 hrs (Min.)									

**Dimensions**

Unit: mm



**Cut-Out dimensions: 311 x 240 mm**

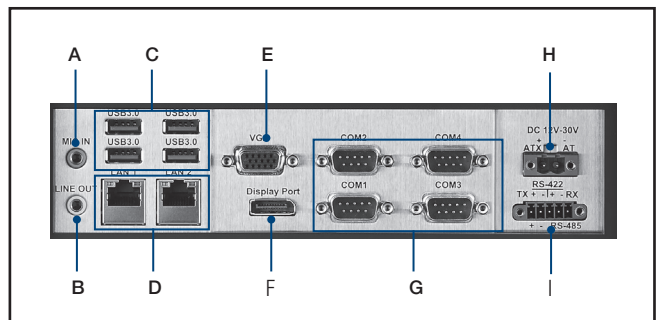
<b>Touchscreen</b>	Touch Type	Analog Resistive 5-wire
	Light Transmission	80+/-3%
	Controller	RS-232 interface
	Durability (Touches)	36 million
<b>Environment</b>	Operating Temperature	0 ~ 50°C (32 ~ 122°F)
	Storage Temperature	-40 ~ 60°C (-40 ~ 140°F)
	Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
	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 No.	Description
PPC-6120-RAE	12.1" 4th Generation Intel® Core™ i / Celeron Panel PC with Resi. T/S
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M
1702002605	Power Cable 90D 220V EUROPEAN 250V/6A 1.8M
96CB-POWER-B-1.8M1	POWER CORD for China 1.8M
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-STAND-A1E	Stand For PPC Series
PPC-3100-VESAE	PPC-3100 VESA bracket module
PPC-WLAN-B1E	WiFi Module with Antenna Cable 40cm for PPC
98R3612003E	Add-on box for PCI or PCIe expansion (include PCI / PCIe riser card)
96PSA-A150W19P2-1	ADP A/D 100-240V 150W 19V C14 TERMINAL BLOCK 2P
2070012966	Image WES7P 32-bit Multi V4.12 PPC-6120
2070013226	Image WES7P 64-bit Multi V4.12 PPC-6120
98R3415010E	Front USB on cabinet module with Cable 100cm
98R3612000E	mSATA/CFast to USB card reader

\* if you order Wall mount kit / ARM / Desktop stand, please also order PPC-3100-VESAE at the same time.

**I/O**



- A. Mic-in
- B. Line-out
- C. USB 3.0 x 4
- D. 10/100/1000 Mbps Ethernet x 2
- E. VGA Port
- F. Display Port
- G. RS-232 x 4
- H. DC Inlet
- I. RS-422/485