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PPC-6120

12" Panel PC with 4th Generation Intel® Core™ i/Celeron® Processor



Features

- 12.1" TFT XGA LCD panel with resistive touch control
- 4th generation Intel® Core™ i/Celeron® processor (thermal power design: 35W/45W)
- 2 x 204-pin SODIMM DDR3/DDR3L (up to 16 GB)
- 2 x Mini PCIe sockets (1 x with mSATA support)
- 1 x Optional PCI/PCIe x4 expansion kit
- 1 x Isolated RS422/485 (terminal block)
- 1 x VGA and 1 x DisplayPort
- Dual GbE with Intel® AMT9.0 support

Introduction

The PPC-6120 is a 12" color TFT LCD panel PC that supports 4th generation Intel® Core™ i/Celeron® processors for high-performance computing. Featuring various connectors, PPC-6120 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-6120 a highly reliable and versatile display platform.

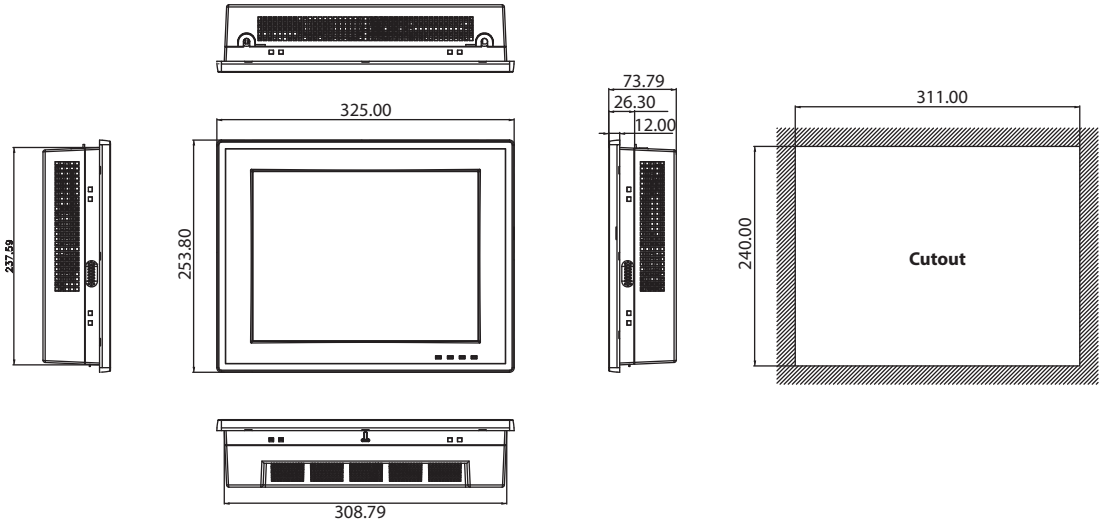
Specifications

Processor System	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	2.3 GHz	2.7 GHz	2.0 GHz	2.4 GHz	3.1 GHz	2.6 GHz	2.3 GHz	2.2 GHz
	L3 Cache	8 MB	4 MB	6 MB	4 MB	4 MB	4 MB	3 MB	2 MB
	TDP	45W	35W	35W	35W	35W	35W	35W	35W
	Chipset	Q87							
	Memory	2 x SODIMM DDR3/DDR3L 1066/1333 MHz (max. 16 GB)							
	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 (1KV$_{DC}$) 4 x USB 3.0 (Ext.) 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; 80 x 80 x 15 mm (3.14 x 3.14 x 0.59 in)							
Physical Characteristics	Dimensions	325 x 253.8 x 73.8 mm (12.80 x 9.99 x 2.91 in)							
	Weight	3.8 kg (8.38 lb)							
OS Support	OS Support	Microsoft® Windows7 32bit&64bit/Windows8.1 32bit&64bit/Windows10 64bit, WES7, Linux							
Power Consumption	Input Voltage	12 ~ 30 V$_{DC}$							
	Power Consumption	84W with i7-4770TE 65W with i5-4590TE 56W with i3-4330TE 47W with Petium-G3320TE Burn-in test 7.0 Windows 7, 64 bit							
		83W with i7-4770TE 61W with i5-4590TE 54W with i3-4330TE 46W with Petium-G3320TE (Burn-in test 7.0 Windows 8, 64 bit)							
LCD Display	Display Type	12.1" TFT LCD panel							
	Max. Resolution	1024 x 768							
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)							
	Luminance (cd/m^2)	600							
	Contrast Ratio	700							
	Backlight Lifetime	50,000 hr (min.)							

All product specifications are subject to change without notice.

Dimensions

Unit: mm



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

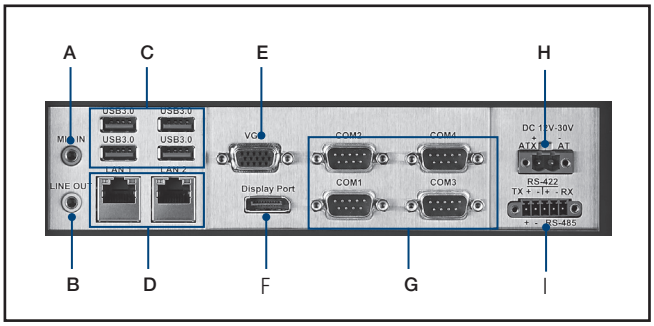
Touchscreen	Touch Type	5-wire analog resistive
	Light Transmission	80+/-3%
	Controller	RS-232 interface
	Durability (Touches)	36 million
Environment	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F)
	Storage Temperature	-40 ~ 60 °C (-40 ~ 140 °F)
	Relative Humidity	10 ~ 95% @ 40 °C (non-condensing)
	Shock	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 Number	Description
PPC-6120-RAE	12.1" 4th Gen Intel® Core™ i/Celeron® panel PC with resistive touchscreen
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

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

I/O View



A. Mic-in
B. Line-out
C. 4 x USB 3.0
D. 12 x 0/100/1000 Mbps Ethernet
E. VGA Port
F. Display Port
G. 4 x RS-232
H. DC Inlet
I. RS-422/485

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Advantech:
PPC-6120-RAE

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