

PPC-3120

12.1" Fanless Panel PC with Intel® Atom™ D2550 Processor



Features

- 12.1" TFT XGA LED Panel with resistive touchscreen
- Embedded Intel® Atom™ processor D2550 1.86 GHz
- System memory up to 4 GB DDR3 1066 SDRAM
- Supports one internal SATA 2.5" HDD and 1 x mSATA socket
- Optional PCI/PCIe x1 expansion kit
- Fanless design and low power consumption
- Automatic data flow control over RS-485
- Adjust RS-232/422/485 through BIOS
- COM1/COM2 pin9 RI/5V/12V adjustable through BIOS
- Auto dimming LED backlight



Introduction

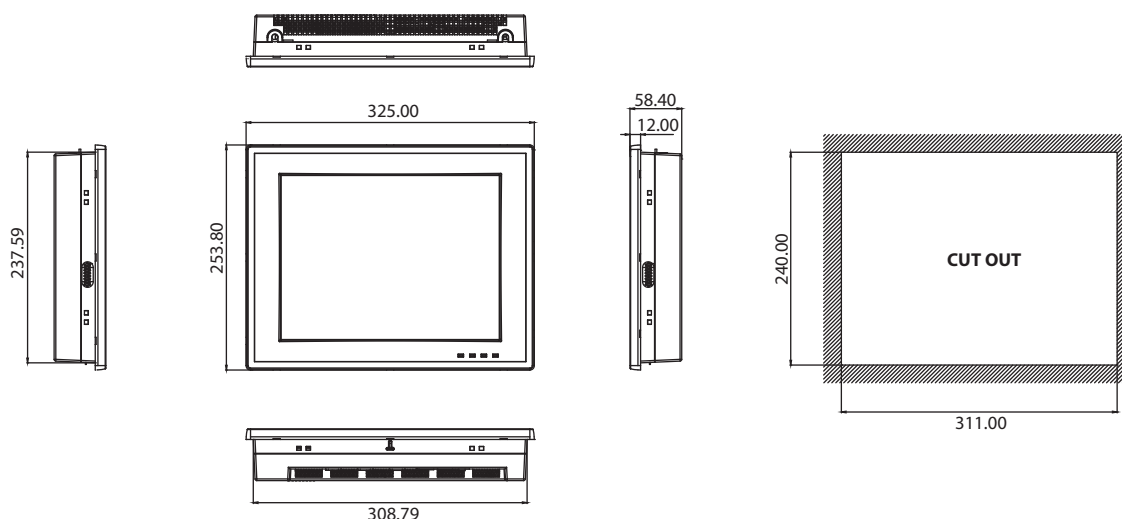
The PPC-3120 is a new 12.1" Panel PC equipped with an Intel® Atom™ processor D2550. Meeting high demands of harsh environments, the fanless design makes PPC-3120 more reliable in different kinds of applications for the machine building industry. In addition, the dual GbE LAN, 4 x serial ports, 4 x USB ports, and GPIO connector make it easier to connect to devices and be integrated into specific solutions. With a user friendly design it comes with an LED indicator on the front panel for power on/off, storage access, and LAN active status.

Specifications

Processor System	CPU	Intel® Atom™ D2550, Dual core
	Frequency	1.86 GHz
	2nd Cache	1 MB
	Chipset	NM10
	Memory	1 x SO-DIMM, DDR3, Max 4 GB
	Storage	1 x 2.5" SATA Bay 1 x mSATA Bay
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet
	I/O ports	4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS) 4 x USB 2.0 1 x Line-out, 1x MIC-in 1 x DB15 VGA 1 x DB9 GPIO port (8 pin programmable)
	Expansion	1 x Mini PCIe 1 x PClex1; 1 x PCI
	Watchdog Timer	255 timer levels, set up by software
Physical Characteristics	Speaker	2 x 3W
	Dimensions	325 x 253.8 x 58.4 mm (12.79" x 10" x 2.3")
OS Support	Weight	3.3 kg (7.27 lb)
	OS Support	Microsoft® Windows XPE / Windows XP Pro / WES7 32bit / WEC7 / Windows 7 32bit / Linux
Power Consumption	Input Voltage	12- 30 Vdc
	Power Consumption	36 W (Burn-in test 7.0 in Windows 7 32bit) 34 W (Burn-in test 7.0 in Windows XP 32bit)
LCD Display	Display Type	12.1" TFT LED Panel (LED Backlight)
	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 hrs (typical)
Touchscreen	Touch Type	Analog Resistive 5-wire
	Light Transmission	81+/-3%
	Controller	RS-232 interface
	Durability (Touches)	36 million

Dimensions

Unit: mm



Cut-out dimensions: 311 x 240 mm

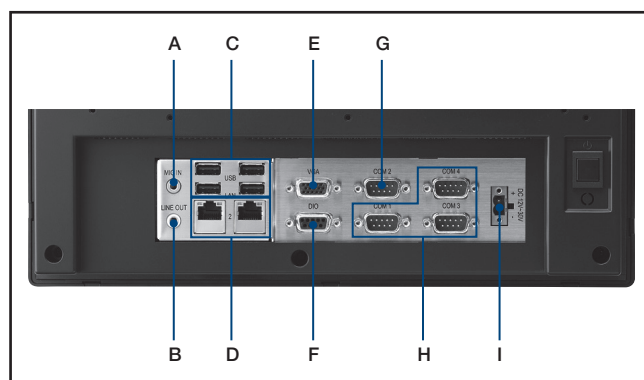
Environment	Operating Temperature	0 ~ 50°C (32 ~ 122°F)
	Storage Temperature	-40 ~ 60°C (-40 ~ 140°F)
	Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms, follow IEC 60068-2-64
	EMC	CE, FCC Class B, BSMI
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-3120-RAE	Atom D2550 Fanless PPC with 12.1" XGA LED backlight, touch, without memory
96PSA-A90W190T-1	ADP A/D 100-240V 90W 19V W/PFC
1700001524	Power cord 3P UL 10A 125V 1.8m
170203183C	Power cord 3P Europe (WS-010+083)183cm
1700008921	Power cord 3P/3P Power supply 1.8M PSE
* PPC-174T-WL-MTE	Wall mount kit for PPC series
* PPC-ARM-A03	PPC ARM VESA Standard
* PPC-STAND-A1E	Stand For PPC Series (single acting hinge)
PPC-3100-VESAE	PPC-3100 VESA bracket module
PPC-WLAN-A1E	WiFi Module with Antenna Cable 40cm for PPC
PPC-3120-EXPE	Add-on box for PCI or PCIe expansion (include PCI / PCIe riser card)
2070012891	Image WES7P 32-bit Multi V4.12 PPC-3120/3100
2070011967	Image windows XPE WES2009 PPC-3120 V4.3 MUI SA
2070012979	Image WEC7 PPC-3120 V4.00 Eng
98R3612000E	Msata/CFast to USB card reader
98R3415010E	Front USB on cabinet module with Cable 100cm

* 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 2.0 x 4
- D. 10/100/1000 Mbps Ethernet x 2
- E. VGA Port
- F. DIO Port
- G. RS-232/422/485 x 1
- H. RS-232 x 3
- I. DC Inlet