

PPC-3100

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



Features

- 10.4" TFT SVGA 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
- 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
- LED backlight Auto dimming



Introduction

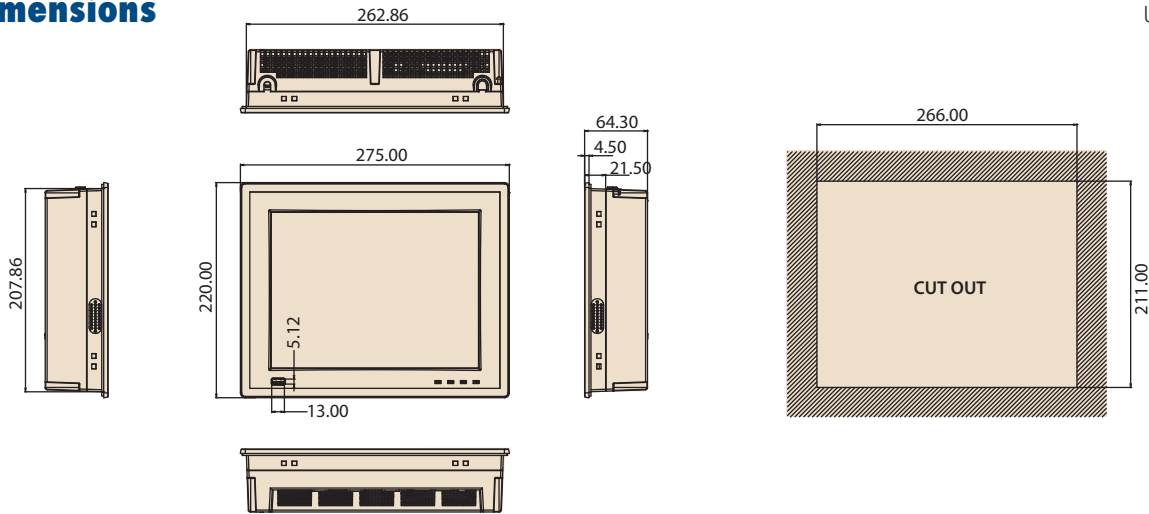
PPC-3100 is a new 10.4" Panel PC equipped with an Intel Atom processor D2550. Meeting high demands of harsh environments, the fanless design makes PPC-3100 more reliable in different kinds of applications for the machine building industry. In addition, the dual GbE LAN, 4 x serial ports, 4 x USB ports, 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 1.86 GHz 10W Dual Core CPU on board	
	Memory	SODIMM x 1, DDR3 1066, Max 4 GB, 2 GB DDR3 pre-installed	
	2nd Cache Memory	1 MB	
	Chipset	Intel NM10	
	Storage	mSATA*1	
	HDD	1 x 2.5" SATA HDD Bay (Internal)	
	I/O Ports		4 x Serial ports: 3 x RS-232, 1x RS-232/422/485 (Adjustable through BIOS)
			4 x USB 2.0 ports
			1 x Line-out, 1x MIC-in
			1 x DB15 VGA
	Bus Expansion		1 x DB9 GPIO port (8 pin programmable)
	Network (LAN)		1x MINI PCIe
	Speaker		2 x 10/100/1000 Mbps Ethernet
Watchdog Timer		2 x 1W speakers	
Dimensions (W x H x D)		255 timer levels; setup by software	
Weight		275 x 220 x 64.3 (10.83" x 8.74" x 2.53")	
		2.5 kg	
OS Support	OS Support	Win XPE / WES7 / WIN CE7.0 / Linux	
Power Supply	Input Voltage	DC 12 ~ 30 V	
LCD Display	Display Type	10.4" TFT LCD (LED Backlight)	
	Max. Resolution	800 x 600	
	Colors	262K	
	Dot Size (mm)	0.264 x 0.264	
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)	
	Luminance(cd/m2)	400	
	Brightness Control	Yes	
	Operating Temperature	-20 ~ 70° C (-4 ~ 158°F)	
Backlight Lifetime		30,000 hrs (typical)	
Touchscreen	Touch Type	Analog Resistive 5-wire	
	Resolution	2048 x 2048	
	Light Transmission	81+/-3%	
	Controller	RS-232 interface	
	Software Driver Support	Windows 7, XP, CE	
Durability (Touches)		36 million	

Dimensions

Unit: mm



Specifications

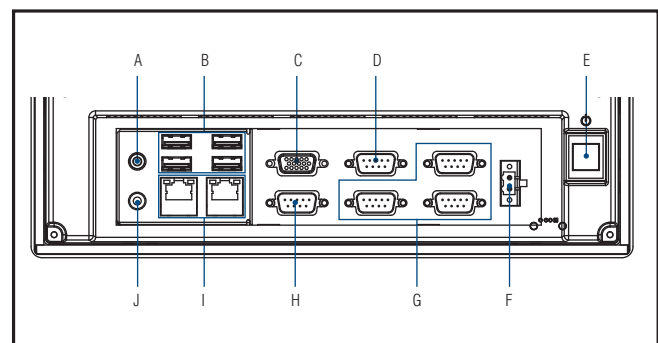
Environment	Operating Temperature	0 ~ 50° C (32 ~ 122° F)
	Storage Temperature	-20 ~ 60° C (-4 ~ 140° F)
	Relative Humidity	10 ~ 95% @ 40° C (non-condensing)
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5-500Hz, 1Grms, follow IEC 60068-2-64
	EMC	BSMI, CE, FCC Class B
	Safety	CB, CCC, BSMI, UL
	Front Panel Protection	IP65 compliant

Ordering Information

Part No.	Description
PPC-3100-R2GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, 2 GB DDR3 pre-installed
PPC-3100-R4GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, 4 GB DDR3 pre-installed
PPC-3100-X2GAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, w/o touch, 2 GB DDR3 pre-installed
PS-DC19-L157E	19V power adapter module
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 A800B for PPC-174T
* PPC-ARM-A03	PPC ARM VESA Standard
PPC-3100-VESAE	PPC-3100 VESA bracket
PPC-3100-WLANE	WLAN module for PPC-3100

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

I/O



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|-------------------|---------------|
| A. MIC in | F. DC-in |
| B. 4 x USB | G. 3 x RS-232 |
| C. VGA | H. GPIO |
| D. RS-232/422/485 | I. 2 x GbE |
| E. Power S/W | J. LINE out |