

# 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

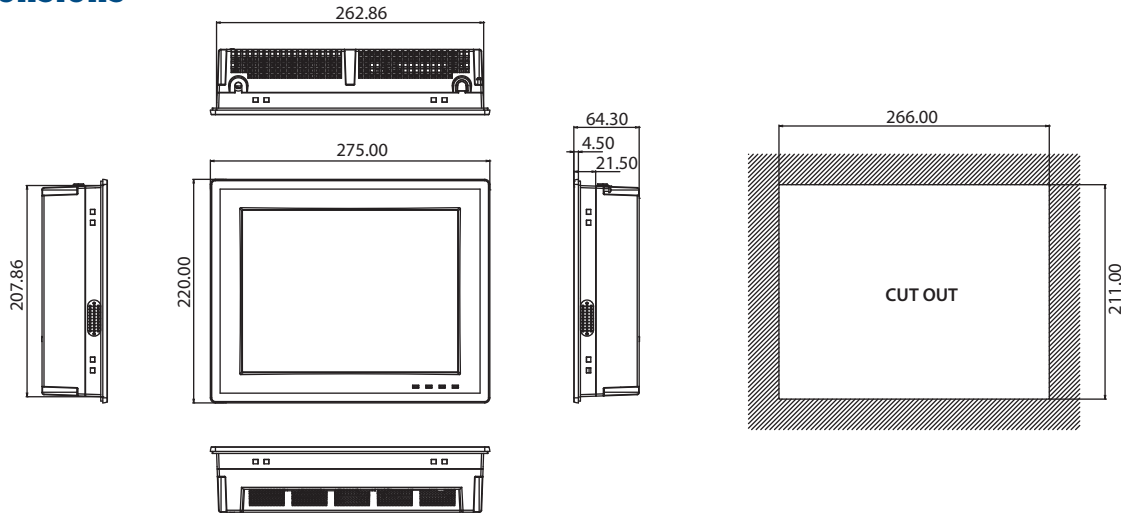
PPC-3100 is a new 10.4" Panel PC equipped with an Intel Atom processor D2550. Meeting high demands of harsh environments, the fanless design makes PPC-3100 more reliable in different kinds of applications for the machine building industry. In addition, the dual GbE LAN, 4 x serial ports, 4 x USB ports, 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

<b>Processor System</b>	CPU	Intel Atom D2550 1.86 GHz 10W Dual Core CPU on board
	Memory	SODIMM x 1, DDR3 1066, Max 4 GB
	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 1 x DB9 GPIO port (8 pin programmable)
	Bus Expansion	1x MINI PCIe
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet
	Speaker	2 x 1W speakers
Watchdog Timer	255 timer levels; setup by software	
Dimensions (W x H x D)	275 x 220 x 64.3 mm (10.83" x 8.74" x 2.53")	
Weight	2.5 kg (5.51 lb)	
<b>OS Support</b>	OS Support	Win XPE, Win XP Pro, WES7 32 bit, Win CE 7.0, Win 7
<b>Power Supply</b>	Input Voltage	DC 12 ~ 30 V
<b>LCD Display</b>	Display Type	10.4" TFT LCD (LED Backlight)
	Max. Resolution	800 x 600
	Colors	16.2 M
	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
Backlight Lifetime	30, 000 hrs (typical)	
<b>Touchscreen</b>	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

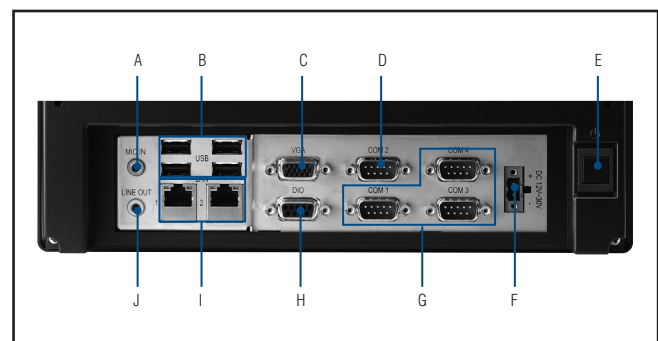
Environment	Operating Temperature	0 ~ 50°C (32 ~ 122°F)
	Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)
	Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
	Shock	Operating 10 G peak acceleration (11 ms duration), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5-500Hz, 1Grms, follow IEC 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-RAE	Atom D2550 Fanless Panel PC with 10.4" SVGA LED backlight, touch, without memory
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 for PPC series
* PPC-ARM-A03	PPC ARM VESA Standard
PPC-3100-VESAE	PPC-3100 VESA bracket
PPC-6150-WLANE	PCIe Half Mini Card WLAN module
2070011747	Image XPE WES2009 PPC-3100 V4.3.1 24 multi-languages with SUSI Access
2070012891	Image WES7P 32-bit Multi V4.12 PPC-3120/3100
2070012470	Image WEC7 PPC-3100 V1.0 Eng
PPC-3100-STANDE	Stand desktop stand for PPC-3100/PPC-3120

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

## I/O



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