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 1 x DB9 GPIO port (8 pin programable)
	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 (10.83" x 8.74" x 2.53")
	Weight	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

262.86

275.00

64.30
4.50
21.50

207.86

220.00

5.12

13.00

266.00

211.00

CUT OUT
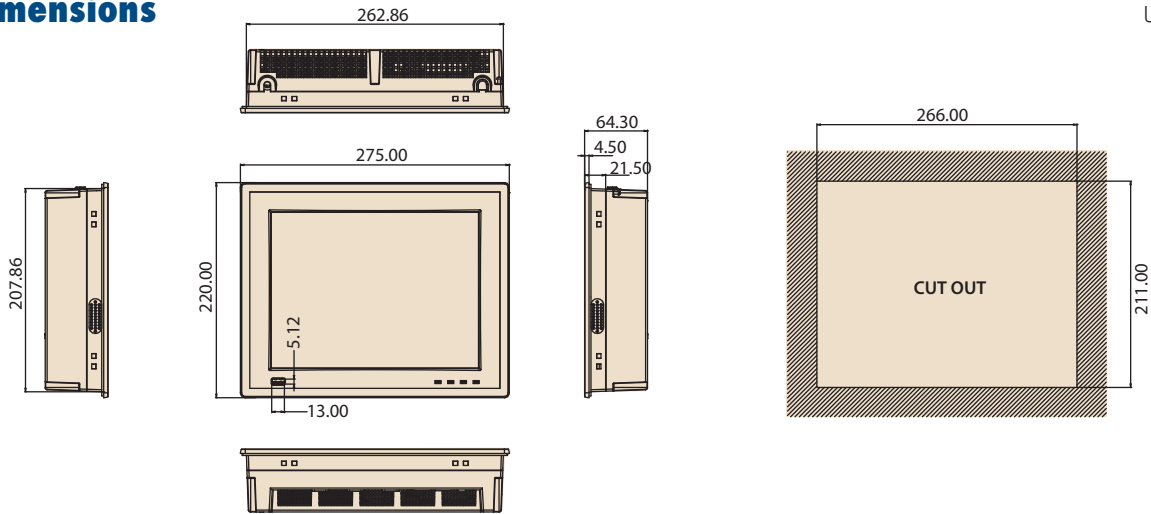
Specifications

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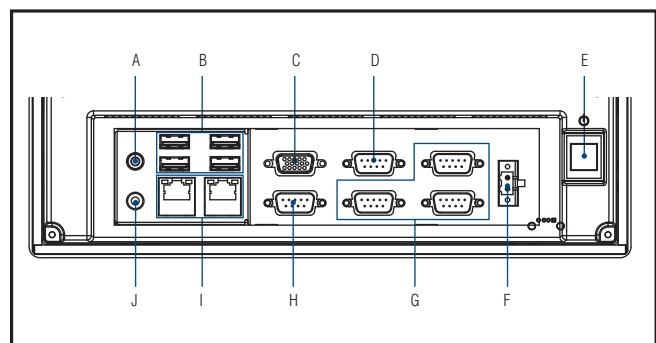
A. MIC in
B. 4 x USB
C. VGA
D. RS-232/422/485
E. Power S/W
F. DC-in
G. 3 x RS-232
H. GPIO
I. 2 x GbE
J. LINE out

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