

# PPC-3100

## 10.4" Fanless Panel PC with Intel® Atom™ E3940 Processor



### Features

- 10.4" SVGA TFT LCD with resistive touchscreen
- Intel® Atom™ E3940, 1.6 GHz, processor
- Up to 8 GB DDR3L 1600/1866 SDRAM
- Supports 1 x internal 2.5" SATA HDD and 1 x mSATA
- Fanless design with low power consumption
- Wide range DC support (9 ~ 32 V<sub>DC</sub>)
- 1 x isolated RS-422/485 with automatic flow control and dual Intel GbE
- Optional GPIO (8 channels, TTL level)



Vertrieb durch



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### Introduction

The PPC-3100 is a 10.4" fanless panel PC equipped with a high-performance Intel® Atom™ E3940 quad-core processor that supports wide power input range (9 ~ 32 V<sub>DC</sub>). The provision of multiple I/O, including 4 x COM, 4 x USB 3.0, 1 x isolated RS-422/485, and dual Intel® Gigabit Ethernet, ensures easy integration and connectivity.

### Specifications

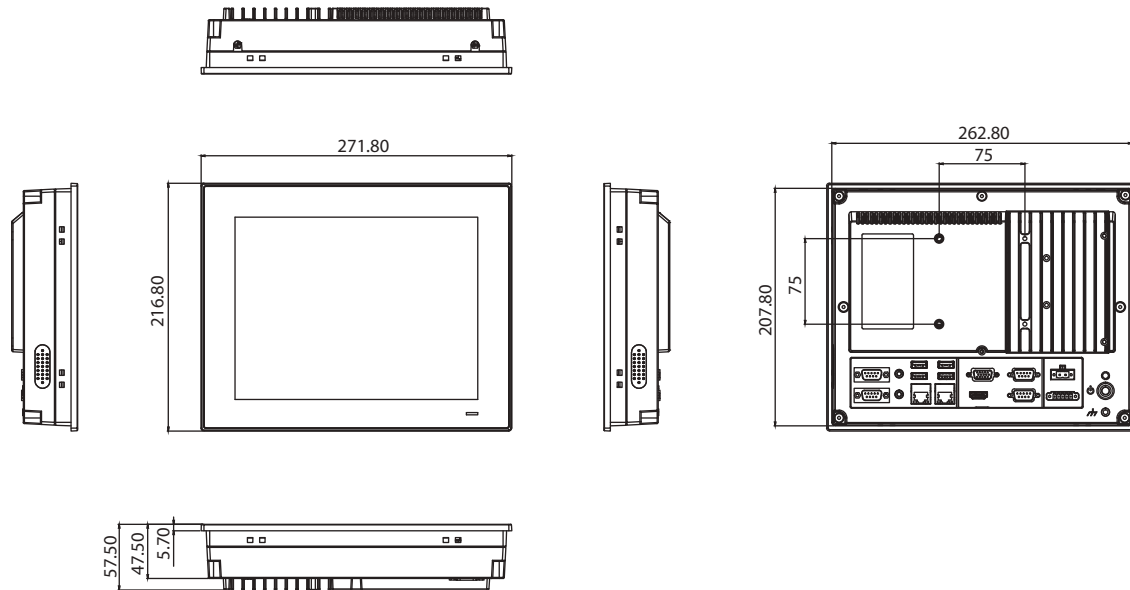
<b>System</b>	CPU	Intel® Atom™ E3940 quad core
	Frequency	1.6 GHz
	L2 Cache	2 MB
	Memory	1 x SODIMM DDR3L 1600/1866 MHz (max. 8 GB)
	Storage	1 x 2.5" SATA bay 1 x mSATA bay
	Network (LAN)	2 x 10/100/1000 Mbps Ethernet (Intel I210AT A ver.) or 2.5GbE (Intel I225LM B ver.)
	I/O	5 x Serial ports: 4 x RS-232, 1 x isolated RS-422/485 (Adjustable through BIOS) 4 x USB 3.0 1 x Line-out, 1 x Mic-in 1 x VGA 1 x HDMI 1 x GPIO (8 channels, TTL level, internal)
	Expansion	1 x Mini PCIe
<b>Physical Characteristics</b>	Watchdog Timer	255 timer levels, set up by software
	Speaker	2 x 1W
<b>OS Support</b>	OS Support	Microsoft® Windows 10 (64-bit), Win 10 LTSC, Linux, Android 8.1
	<b>Power Consumption</b>	Input Voltage
Power Consumption		30W (Burn-in test 8.0 in Windows 10 64bit)
<b>LCD</b>	Display Type	10.4" TFT LED Panel (LED backlight)
	Max. Resolution	800 x 600
	Viewing Angle	80 (left), 80 (right), 70 (up), 70 (down)
	Luminance (cd/m <sup>2</sup> )	400
	Contrast Ratio	700
	Backlight Lifetime	30,000 hr (typical)
<b>Touchscreen</b>	Touch Type	5-wire resistive touch
	Light Transmission	80±5% at 550nm wavelength
	Controller	USB interface
	Durability (Touches)	Greater than 35 million touches in one location without failure
<b>Environment</b>	Operating Temperature	0 ~ 50 °C (32 ~ 122 °F)
	Storage Temperature	-30 ~ 60 °C (-22 ~ 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; 2Grms @with SSD, follow IEC 60068-2-64
	EMC	CE, FCC Class B, BSMI
	Safety	CB, CCC, BSMI, UL
Front Panel Protection	IP66 compliant	



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## Dimensions

Unit: mm


**Panel Cutout Dimensions: 265 x 210 mm (10.43 x 8.26 in)**

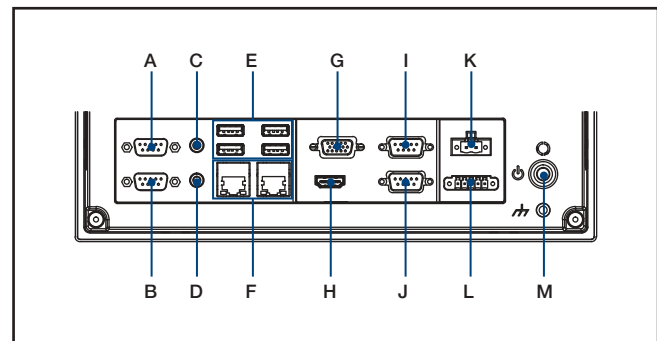
## Ordering Information

Part Number	Description
PPC-3100-RE9A	Atom E3940 Fanless Panel PC with 10.4" LED Panel, Res. T/S, assembled in China
PPC-3100-RE9B	Atom E3940 Fanless Panel PC with 10.4" LED Panel, Res. T/S, assembled in China
PPC-3100-RE9AU	Atom E3940 Fanless Panel PC with 10.4" LED Panel, Res. T/S, assembled in Taiwan
PPC-3100-RE9BU	Atom E3940 Fanless Panel PC with 10.4" LED Panel, Res. T/S, assembled in Taiwan
96PSA-A90W190T-3	A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368
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
96CB-POWER-B-1.8MB	Power cable 3P CCC(China) 1.8M
PPC-STAND-A1E	Stand For PPC Series
PPC-WLAN-C1E	M.2 Wi-Fi Module with Antenna cable support 2T2R

**Note:**

 PPC-3100-xxxAx: Intel I210AT, 1GbE LAN chipset  
 PPC-3100-xxxBx: Intel I225LM, 2.5GbE LAN chipset

## I/O View



- |                 |                               |
|-----------------|-------------------------------|
| A. COM4: RS-232 | H. HDMI                       |
| B. COM5: RS-232 | I. COM1: RS-232               |
| C. Line Out     | J. COM2: RS-232               |
| D. Mic In       | K. DC Inlet and AT/ATX switch |
| E. 4 x USB 3.0  | L. COM3: Isolated RS-422/485  |
| F. 2 x LAN      | M. Power Button               |
| G. VGA          |                               |

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.