

# PPC-3151

## 15" Fanless Panel PC with Intel® Core™ i5-6300U Processor



### Features

- 15" XGA TFT LCD flat panel with projected capacitive (default) or resistive (optional) touchscreen
- Intel® Core™ i5-6300U (default)/i7/i3 (optional) processor with fanless system design
- Supports either 1 x PCIe x4 or PCI
- 1 x M.2 bay (2242) for storage only
- 1 x isolated RS-422/485 with auto flow
- Wide power input range (9 ~ 32 V<sub>DC</sub>)
- Dual Gigabit Ethernet, IEEE1588 compliant
- 3 x Independent displays
- Supports VESA 75 mounting interface



### Introduction

The PPC-3151 is a next-generation panel PC featuring a 15" TFT XGA display with 1024 x 768 resolution. Powered by a high-performance Intel® Core™ i5-6300U processor, the system's high-efficiency fanless thermal design allows heat to dissipate rapidly. By combining high performance with reliability, PPC-3151 provides a superior human-machine interface. Rich I/O including 3 x COM, 4 x USB 3.0, and dual Gigabit Ethernet facilitate device connectivity and system integration. The inclusion of a PCIe/PCI slot for fieldbus or proprietary card expansion increases the system's suitability for diverse applications. Finally, the 5-point multi-touch screen ensures convenient and intuitive operation for the optimal user experience.

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### Specifications

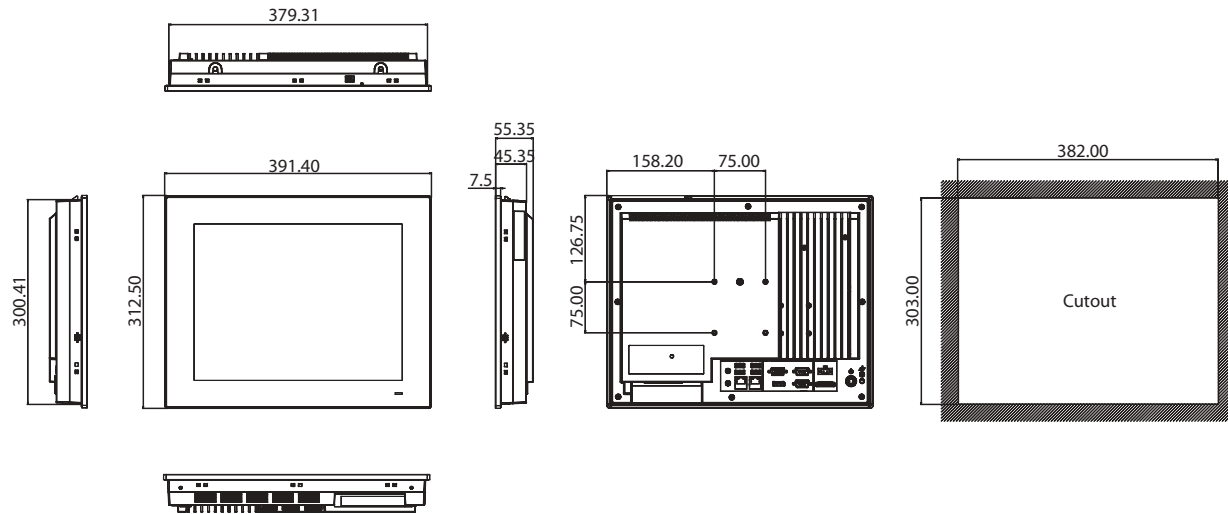
| Model                           | PPC-3151-650AE                 |   |
|---------------------------------|--------------------------------|---|
| <b>Processor</b>                | CPU                            | Intel® Core™ i5-6300U (dual core)   |
|                                 | Frequency                      | 2.4 GHz, turbo boost up to 3.0 GHz  |
|                                 | Smart Cache                    | 3 MB  |
|                                 | Memory                         | 1 x SODIMM, DDR4 1866/2133, max. 16 GB (1.2V)   |
|                                 | Storage                        | 1 x 2.5" SATA bay<br>1 x M.2 bay (size: 22 x 42 mm, socket 2 B key, for storage only)   |
|                                 | Network (LAN)                  | 2 x 10/100/1000 Mbps Ethernet (Intel® I211-AT; Intel® I219LM)   |
|                                 | I/O                            | 3 x Serial ports (2 x RS-232, 1 x RS-422/485 with 1K V <sub>DC</sub> isolation)<br>4 x USB 3.0 ports at rear<br>1 x Line-Out, 1 x Mic-In<br>1 x DB15 VGA<br>1 x DisplayPort (1.2) |
|                                 | Expansion                      | 1 x Mini PCIe<br>1 x PCIe x 4 (Default); 1 x PCI (in the accessory box)<br>Optional: 1 x CFast, 1 x CF card, 1 x internal USB dongle, 2 x RS-232 or 1 x RS-232 + 1 x GPIO         |
|                                 | Watchdog Timer                 | 255 timer levels, setup via software  |
|                                 | Speaker                        | 2 x 1W  |
| <b>Physical Characteristics</b> | Dimensions                     | 391.4 x 312.5 x 55.35 mm (15.41 x 12.3 x 2.18 in)   |
|                                 | Weight                         | 5.4 kg (11.90 lb)   |
| <b>OS Support</b>               | OS                             | Microsoft® Windows 7(32/64-bit)/10(64-bit), WES7P(64-bit), Win10 IOT LTSB, Linux  |
| <b>Power Consumption</b>        | Input Voltage                  | 9 ~ 32 V <sub>DC</sub>  |
|                                 | Power Consumption              | i5-6300U: 60W (Burn-in test 7.0 in Windows 7, 64 bit)   |
| <b>LCD Panel</b>                | Display Type                   | 15" TFT LED panel   |
|                                 | Max. Resolution                | 1024 x 768  |
|                                 | Viewing Angle                  | 88° (left), 88° (right), 88° (up), 88° (down)   |
|                                 | Luminance (cd/m <sup>2</sup> ) | 500   |
|                                 | Contrast Ratio                 | 2,500   |
|                                 | Backlight Lifetime             | 70,000 hr   |
| <b>Touchscreen</b>              | Touch Type                     | Projected capacitive 10-point multi-touch   |
|                                 | Light Transmission             | 85% ± 3%  |
|                                 | Controller                     | USB interface   |
| <b>Environment</b>              | Operating Temperature          | 0 ~ 50 °C (32 ~ 122 °F) for SSD, 0 ~ 45 °C (32 ~ 113 °F) for HDD  |
|                                 | 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), IEC 60068-2-27 compliant   |
|                                 | Vibration                      | Operating random vibration test 5 ~ 500Hz, 1 Grms with HDD; 2 Grms with SSD, IEC 60068-2-64 compliant   |
|                                 | EMC                            | CE, FCC Class B, BSMI   |
|                                 | Safety                         | CB, UL, CCC, BSMI   |
|                                 | Front Panel Protection         | IP65 compliant  |



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## Dimensions

Unit: mm

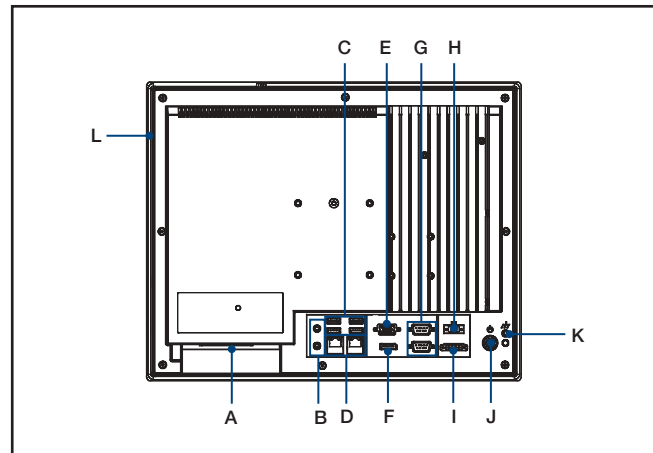


**Panel Cutout Dimensions: 382 x 303 mm (15.03 x 11.92 in)**

## Ordering Information

| Part Number        | Description   |
|--------------------|---|
| PPC-3151-650AE     | 15" Fanless panel PC with PCT multi-touch, Intel Core i5-6300U processor  |
| PPC-3151-650AU     | 15" Fanless panel PC with PCT multi-touch, Intel Core i5-6300U processor, for U.S. only                             |
| 96PSA-A90W190T-3   | A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368  |
| 1700001524         | Power cable 3P UL 10A 125V, 180 cm  |
| 170203183C         | Power cable 3P Europe (WS-010+083) 183 cm   |
| 1700008921         | Power cable 3P/3P power supply 1.8M PSE   |
| 96CB-POWER-B-1.8MB | Power code 3P CCC(China) 1.8M   |
| PPC-174T-WL-MTE    | Wall mount kit for PPC series   |
| PPC-STAND-A1E      | Stand for PPC series  |
| PPC-ARM-A03        | ARM VESA standard (A-CLEVER) for PPC series   |
| PPC-WLAN-C1E       | M.2 Wi-Fi Module with Antenna cable support 2T2R  |
| PPC-3150-COME      | Module that supports two additional ports (either two RS-232 or one RS-232 and one GPIO port) for PPC-3150/PPC-3170 |
| 98R3C31500E        | PPC-3150/3170 internal USB dongle kits  |
| 98R3C31510E        | PPC-3150/3170 install CF card kits  |
| 98R3C31520E        | PPC-3150/PPC-3170 CF card kits  |
| 98R3P321110        | TPM 2.0 module  |

## I/O View



- A. PCIe x 4/PCI expansion
- B. Line-Out/Mic-In
- C. 4 x USB 3.0
- D. 2 x GigaLAN
- E. VGA
- F. DP
- G. 2 x RS232
- H. DC power input
- I. 1 x RS422/485
- J. Power button
- K. Grounding screw
- L. Optional modules