

PPC-412

12.1" Fanless Panel PC with Intel® Core™ i5-7300U Processor



Features

- 12.1" XGA TFT LCD with resistive touchscreen
- Intel® Core™ i5-7300U(default); i7-7600U/i3-7100U(optional) processor with fanless system design
- 1 x isolated RS-422/485 with auto flow
- Wide input power range (9 ~ 32 V_{DC})
- Dual Gigabit Ethernet with IEEE1588 support
- 3 x Independent displays
- 1 x M.2 bay (2242) for storage only
- 1 x TPM 2.0 internal support (optional)
- Supports VESA 75 mounting interface

Introduction

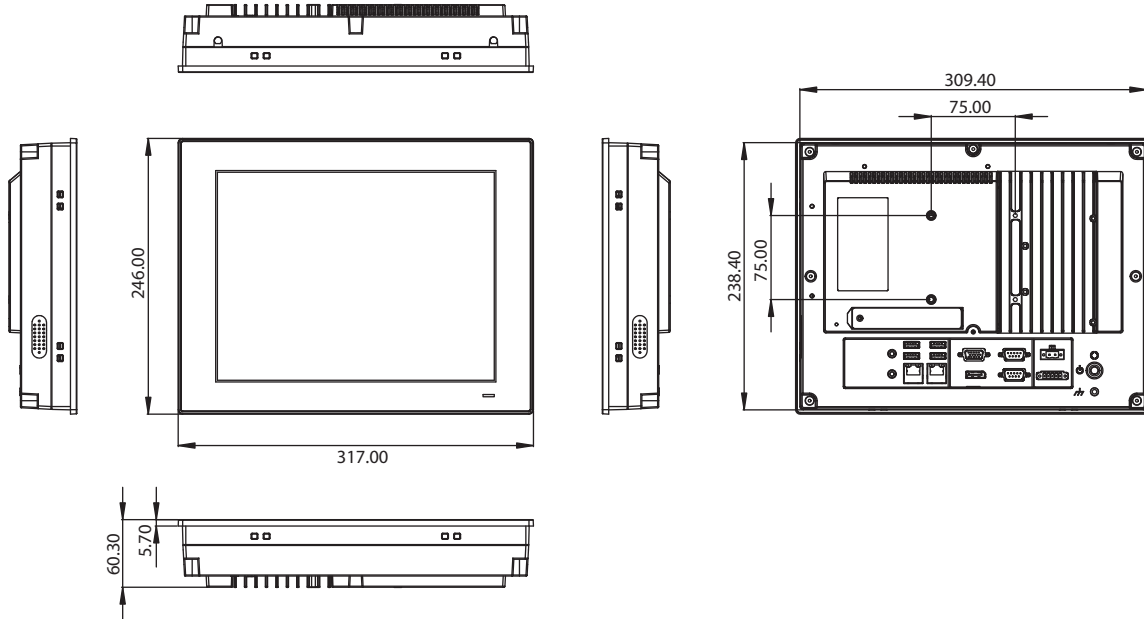
PPC-412 is a new generation industrial interactive panel PC with a 12.1" TFT LCD 1024 x 768 resolution, which features a flat, sleek design to greatly reduce maintenance effort. Pre-installed Intel® Core™ i processor and designed fanless architecture, PPC-412 provide high performance and reliable system for factory automation or variety of industrial applications. Furthermore, with the provision of multiple I/O, dual Intel® Gigabit ethernet, PPC-412 ensures easy integration and connectivity.

Specifications

| | | |
|---------------------------------|--------------------------------|---|
| System | CPU | Intel® Core™ i5-7300U dual core (default); i7-7600U/i3-7100U (optional) |
| | Frequency | 2.6 GHz, up to 3.5 GHz with turbo |
| | L2 Cache | 3 MB |
| | Memory | 1 x SODIMM DDR4 1866/2133 MHz, (max. 16 GB) |
| | Storage | 1 x 2.5" SATA bay 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 | 2 x RS-232, 1 x RS-422/485 with 1K V _{DC} isolation 4 x USB 3.0 1 x Line-out, 1 x Mic-in 1 x DB15 VGA 1 x Display Port (1.2) 1 x TPM 2.0 internal(optional) |
| | Expansion | 1 x Mini PCIe |
| | Watchdog Timer | 255 timer levels, set up by software |
| Speaker | 2 x 1W | |
| Physical Characteristics | Dimensions | 317 x 246 x 60.5 mm (12.4 x 9.7 x 2.4 in) |
| | Weight | 3.4 kg (7.5 lb) |
| OS Support | OS Support | Microsoft® Windows 10 (64-bit), Win 10 LTSC, Linux |
| Power Consumption | Input Voltage | 9 ~ 32 V _{DC} |
| | Power Consumption | i5-7300U 60W (Burn-in test 8.0 in Windows 10 64bit) |
| LCD | Display Type | 12.1" TFT LCD panel |
| | Max. Resolution | 1024 x 768 |
| | Viewing Angle | 89 (left), 89 (right), 89 (up), 89 (down) |
| | Luminance (cd/m ²) | 600 |
| | Contrast Ratio | 1000 |
| | Backlight Lifetime | 50,000 hr (min.) |
| Touchscreen | Touch Type | 5-wire resistive |
| | Light Transmission | 80±5% at 550nm wavelength |
| | Controller | USB interface |
| Environment | Operating Temperature | 0 ~ 50 °C (32 ~ 122 °F) with SSD |
| | 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), Follows IEC 60068-2-27 |
| | Vibration | Operating Random Vibration Test 5 ~ 500Hz, 2Grms @with SSD, Follows IEC 60068-2-64 |
| | EMC | CE, FCC Class B, BSMI |
| | Safety | CB, UL, CCC, BSMI |
| Front Panel Protection | IP65 compliant | |

Dimensions

Unit: mm

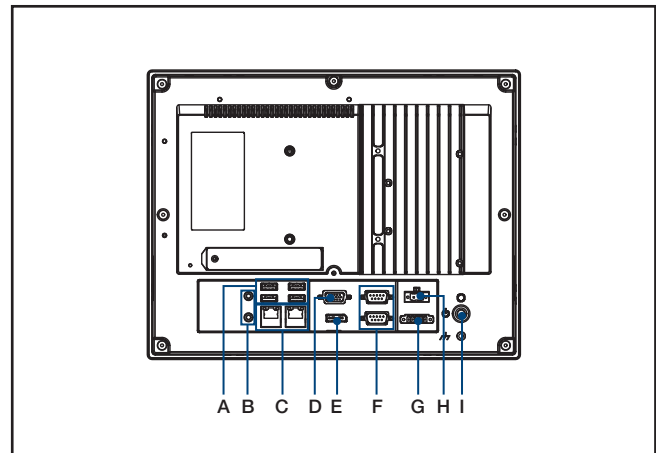


Cut-Out Dimension: 311 x 240 mm

Ordering Information

| Part Number | Description |
|--------------------|---|
| PPC-412-R750A | Intel Core i5-7300U Fanless PPC with 12.1" XGA LED backlight, resistive touch, assembled in China |
| PPC-412-R750A0 | Intel Core i5-7300U Fanless PPC with 12.1" XGA LED backlight, resistive touch, without audio function, assembled in China |
| PPC-412-R750AU | Intel Core i5-7300U Fanless PPC with 12.1" XGA LED backlight, resistive touch, assembled in Taiwan |
| 96PSA-A90W190T-3 | A/D 100-240V 90W 19V C6 TERMINAL 2 PIN 62368 |
| 1700001524 | POWER Cord 3P UL 10A 125V 180cm |
| 170203183C | POWER Code 3P Europe (WS-010+083)183cm |
| 1700008921 | POWER CORD 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 |
| 98R3P321110 | TPM 2.0 module |

I/O View



- A. 4 x USB3.0
- B. 1 x Mic-In/Line-Out
- C. 2 x Intel Gigabit Ethernet
- D. 1 x VGA
- E. 1 x DisplayPort
- F. 2 x RS-232
- G. 1 x Isolated RS-422/485
- H. 1 x DC inlet and AT/ATX switch
- I. 1 x Power button

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.