

PPC-L158T

15" Fanless Panel PC with Intel® Atom™ Dual-Core Processor



Features

- 15" TFT XGA LCD with optional resistive touchscreen
- Embedded Intel® Atom™ processor, dual-core D525 1.8G
- System memory up to 2 x DDR3 800 MHz SODIMMs
- Supports one internal SATA 2.5" HDD
- Supports One Mini PCIe socket, Dual Gigabit Ethernet
- Either PCI/PCIe x 1 expansion kit
- Fanless and ultra-low power consumption
- One RS-232/422/485; (supporting Auto-flow control, BIOS-selectable)
- One RS-232/ GPIO (8 channels, TTL level); (by swapping pin header)



Introduction

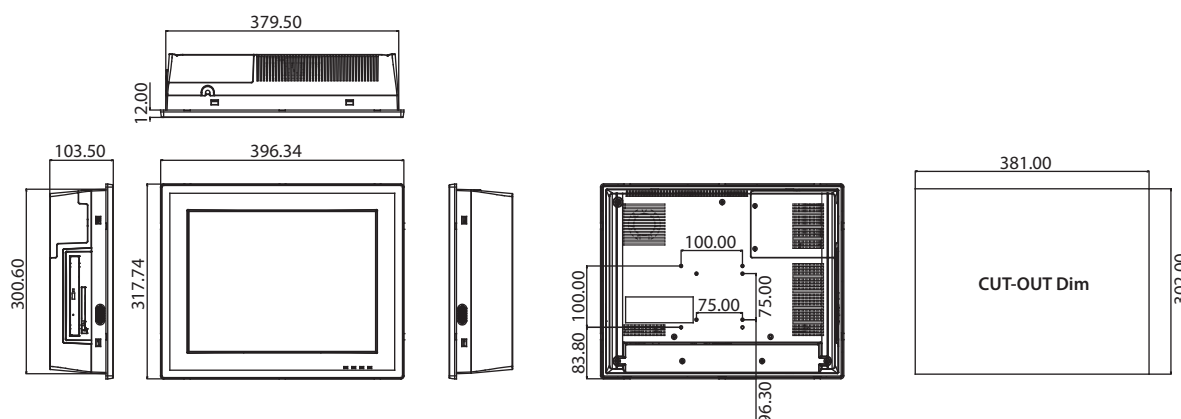
The PPC-L158T is a 15" Fanless panel PC that delivers high performance while consuming low power. The PPC-L158T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L158T is equipped with dual Gigabit Ethernet connectors, 8-channel GPIO function and either one PCI or one PCIe expansion slot. Advantech's customization services and optional accessories including wireless modules and SATA optical devices, allow system integrators to design tailor-made solutions for a host of industrial applications.

Specifications

| | | | |
|-------------------------------------|--|---|---|
| Processor System | CPU | Intel Atom processor, dual-core D525 1.8G | |
| | Chipset | D525 + ICH8M | |
| | Secondary Cache | 1MB L2 cache | |
| | Memory | 2 x DDR3 800 MHz SODIMMs (up to 2GB each socket), compatible with 1066/1333 MHz (does not support ECC and REG) | |
| | DVD-RW Drive | Optional (989K017702E) | |
| | SSD | Supports one CFast™ Type I, II socket | |
| | HDD | One internal SATA interface- 2.5" Type | |
| | Network (LAN) | 2 x 10/100/1000 Mbps (RJ-45) | |
| | Fully Integrated I/O and Speakers | 4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, 1 x RS-232/ GPIO (8 channels, TTL level)* 4 x USB 2.0 ports Mic in/ Line out, 1W speaker - 2 x Gigabit Ethernet ports 1 x D-SUB VGA port 1 x PS/2 mouse and 1 x keyboard interface 1 x Parallel port (by an additional cable in the accessory box) * RS-232/422/485 - selected in BIOS and supporting RS-232/GPIO by swapping pinheader, Auto-flow control | |
| | Bus Expansion | 1 x expansion slot for PCI/PCIe card 1 x MINI PCIe slot | |
| | Front Panel Protection | IP65 compliant | |
| Weight | 6 kg (13.2 lb) | | |
| Dimensions (W x H x D) | 396.5 x 317.6 x 103.5 mm (15.6" x 12.5" x 4.08") | | |
| OS Support | Win XPE / Win XP Pro / WES7 32 bit / Windows 7 32 & 64 bit / CE6.0 | | |
| Power Supply | DC | Input Voltage | 15 ~ 24 V _{DC} |
| | AC | Output Rating | 85 W (max.) |
| | | Input Voltage | 100 ~ 240 V _{AC} , 50 ~ 60 Hz, 1 ~ 2 A |
| LCD Display | Display Type | 15" Color TFT LCD | |
| | Max. Resolution | 1024 x 768 | |
| | Colors | 262 K | |
| | Pixel Pitch (mm) | 0.297 x 0.297 | |
| | Viewing Angle | 160°/140° | |
| | Luminance (cd/m ²) | 350 | |
| | Brightness Control | Yes | |
| | Backlight Lifetime | 50,000 hours | |
| Touchscreen (optional) | Type | Analog Resistive 5-wire (AMT) Anti-Corrective type | |
| | Resolution | 2048 x 2048 | |
| | Light Transmission | 80 % | |
| | Controller | RS-232 interface | |
| | Durability (Touches) | 35 million | |
| Environmental Specifications | Operating Temperature | 0-50°C (32-122°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, 1Grms, follows IEC 60068-2-64 | |
| | EMC | CE, FCC Class B, BSMI | |
| | Safety | CE CB, UL, BSMI, CCC, VCCI | |

Dimensions

Unit: mm

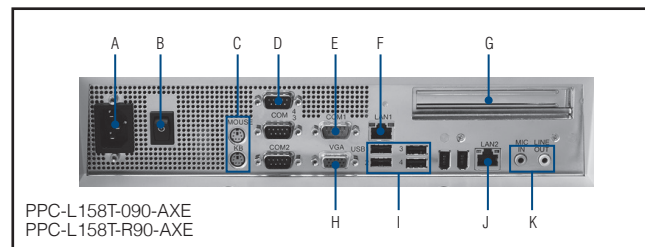


Ordering Information

| Part NO | Description |
|-------------------|---|
| PPC-L158T-090-AXE | Intel Atom processor, Dual Core processor D525 1.8G fanless panel PC with 15" TFT LCD (with 85W PSU inside) |
| PPC-L158T-R90-AXE | PPC-L158T-090-XE with resistive touchscreen (with 85W PSU inside) |
| PPC-L158T-090-DXE | Intel Atom Dual Core processor D525 1.8G fanless panel PC with 15" TFT LCD (DC Input Model) |
| PPC-L158T-R90-DXE | PPC-L158T-090-XE with resistive touchscreen (DC Input Model) |
| PPC-ARM-A03 | VESA Stand ARM for PPC series |
| PPC-174T-WL-MTE | Wall mount kit for PPC series |
| PPC-155T STAND | Stand kit for PPC-L158T/157/177/ series |
| PS-DC19-L157E | 19V DC power adapter module for PPC-L128/PPC-L157 |
| 1700001524 | Power cord 3P UL 10A 125V 1.8M (for adapter) |
| 989K017700E | Optical disc drive kit for PPC-L158T/157/177 (W/O ODD) |
| 989K017702E | DVD-RW (SATA) module for PPC-L158T/157/177 |
| 2070010541 | Image XPE WES2009 PPC-L158 V4.0 24 MUI |
| 2070011078 | Image CE 6.0 Pro PPC-L158 V1.0 ENG |
| PPC-L158T-WLANE | Wireless Module for PPC-L158T Series |
| 2070011241 | Image WES7E SP1 32 bit PPC-L158T V5.1 English version |
| 2070011242 | Image WES7P SP1 32 bit PPC-L158T V5.1, 36 multi-language |

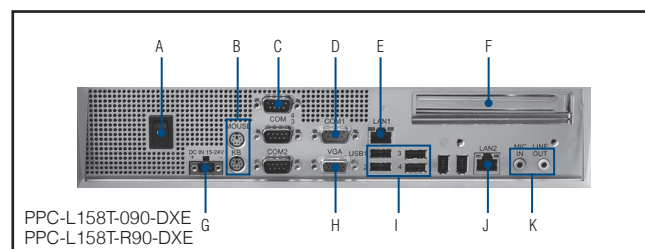
I/O Appearance

AC Input Model



- A: AC Inlet
- B: Power Switch
- C: PS2 Mouse x 1 / Keyboard x 1
- D: RS-232 x 2, RS-232/422/485 x 1
- E: RS-232 x 1 (or GPIO x 1 by cable swapping)
- F: 10/100/1000 Mbps Ethernet x 1
- G: PCI Slot x 1 (or PCIe Slot x 1)
- H: VGA Port
- I: USB 2.0 x 4
- J: 10/100/1000 Mbps Ethernet x 1
- K: Line out/Mic in

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