

# 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

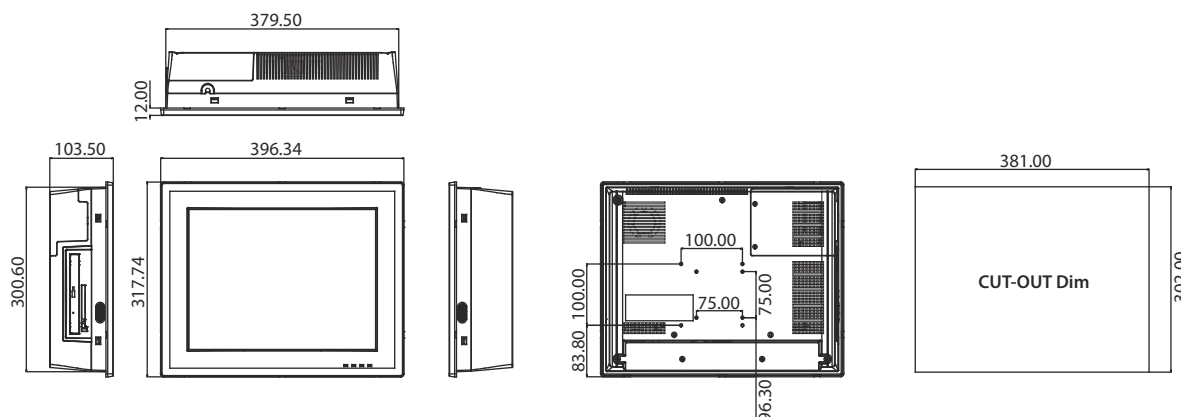
The PPC-L158T is a 15" Fanless panel PC that delivers high performance while consuming low power. The PPC-L158T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L158T is equipped with dual Gigabit Ethernet connectors, 8-channel GPIO function and either one 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

<b>Processor System</b>	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")		
<b>OS Support</b>	Win XPE / Win XP Pro / WES7 32 bit / Windows 7 32 & 64 bit / CE6.0		
<b>Power Supply</b>	DC	Input Voltage	15 ~ 24 V <sub>DC</sub>
	AC	Output Rating	85 W (max.)
		Input Voltage	100 ~ 240 V <sub>AC</sub> , 50 ~ 60 Hz, 1 ~ 2 A
<b>LCD Display</b>	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 <sup>2</sup> )	350	
	Brightness Control	Yes	
Backlight Lifetime	50,000 hours		
<b>Touchscreen (optional)</b>	Type	Analog Resistive 5-wire (AMT) Anti-Corrective type	
	Resolution	2048 x 2048	
	Light Transmission	80 %	
	Controller	RS-232 interface	
Durability (Touches)	35 million		
<b>Environmental Specifications</b>	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

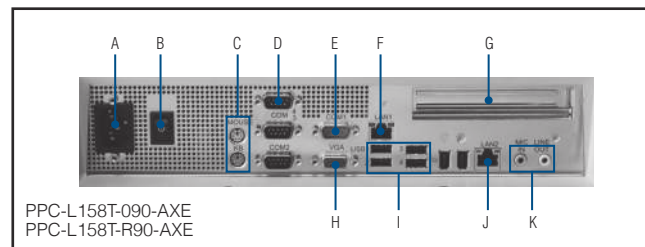


## Ordering Information

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

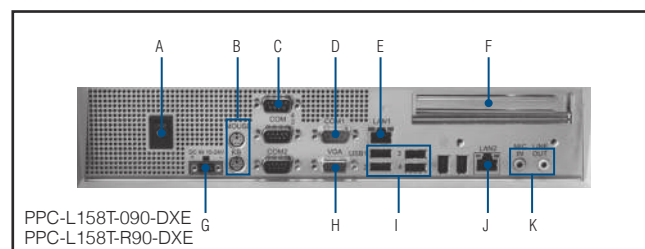
## I/O Appearance

### 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

### DC Input Model



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