

# PPC-L128T

## 12.1" Fanless Panel PC with Intel® Atom™ N270 Processor



### Features

- 12.1" TFT XGA LCD with optional resistive touchscreen
- Embedded Intel® Atom™ processor N270 1.6 GHz
- Supports up to 2 GB DDR2 SDRAM
- Supports one internal SATA 2.5" HDD
- Support 4 USB 2.0 ports, Dual Gigabit Ethernet
- Optional PCI/PCIe x 1 expansion kit
- Fanless and ultra-low power consumption
- Automatic data flow control over RS-485 (COM2)



### Introduction

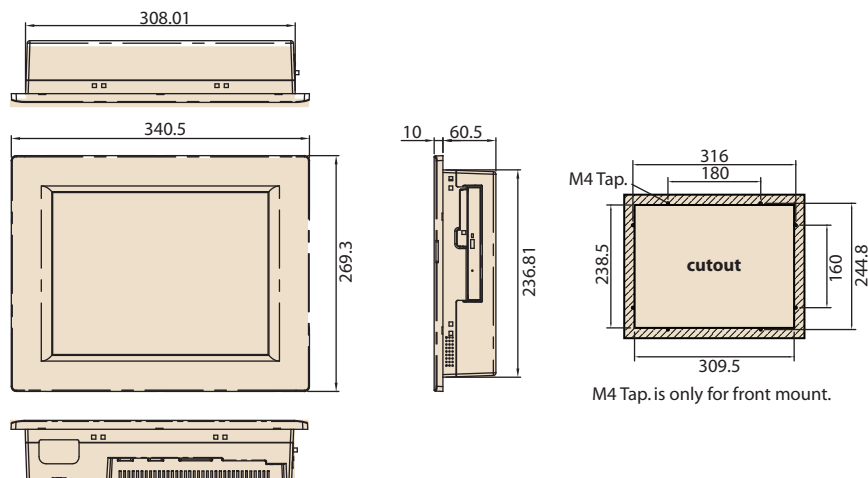
The PPC-L128T is 12.1" Fanless panel PC that delivers high performance while consuming low power. The PPC-L128T operates with low noise and provides display resolutions up to 1024 x 768 (XGA) pixels. The PPC-L128T is equipped with dual Gigabit Ethernet connectors supporting either failover or LAN teaming. Advantech's customization services and optional accessories including wireless modules, battery packs, and SATA optical devices, allowing system integrators to design tailor-made solutions for a host of industrial applications. And PPC-L128T optionally supports a sunlight readable display, making it suitable for outdoor use.

### Specifications

|   |  |   |                                     |
|---|--|---|-------------------------------------|
| Processor System                            | CPU  | Intel Atom Processor N270 1.6 GHz                           |                                     |
|   | CPU Front Side Bus                                       | 533 MHz   |                                     |
|   | Chipset  | Intel 945GSE + Intel ICH7M                                  |                                     |
|   | Secondary Cache  | 512 KB L2 Cache   |                                     |
|   | Memory   | 200-pin DDR2 533 SODIMM x1 Up to 2 GB                       |                                     |
|   | DVD+/-RW   | Optional (989KL128T00E)                                     |                                     |
|   | SSD  | Supports one CompactFlash Type 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                        | 3 Serial Ports: RS-232 x 2, RS-232/422/485 x 1; 1 GPIO port |                                     |
| 1 VGA Port ; PS/2 Mouse and Keyboard        |  |   |                                     |
| Line-in/ Line-out/ Mic-in                   |  |   |                                     |
| Built-in 1W x 2 speakers, USB 2.0 ports x 4 |  |   |                                     |
| Bus Expansion                               | 1 x expansion slot for PCI/PCIe card                     |   |                                     |
|   | 1 x MINI PCIe slot                                       |   |                                     |
| Front Panel Protection                      | IP65 compliant   |   |                                     |
| Weight                                      | 3.63 kg (7.98 lb)  |   |                                     |
| Dimensions (W x H x D)                      | 340.5 x 269.3 x 70.5 mm (13.41" x 10.6 x 2.78")          |   |                                     |
| OS Support                                  | Microsoft Windows XPe/XP Pro, Vista, Windows 7 and WES 7 |   |                                     |
| Power Supply                                | 12 ~ 24 V <sub>DC</sub>                                  |   |                                     |
| LCD Display                                 | PPC-L128T-R80/080 series                                 |   | PPC-L128T-R81/081 series            |
|   | Display Type   | 12.1" Color TFT LCD   | 12.1" Color TFT LCD (LED backlight) |
|   | Max. Resolution  | 1024 x 768  | 1024 x 768                          |
|   | Colors   | 262 K   | 262 K                               |
|   | Pixel Pitch (mm)   | 0.240 x 0.240   | 0.240 x 0.240                       |
|   | Viewing Angle  | 160°/160°   | 160°/160°                           |
|   | Luminance (cd/m <sup>2</sup> )                           | 450   | 600                                 |
|   | Brightness Control                                       | Yes (by BIOS)   | Yes (by BIOS)                       |
|   | Backlight Lifetime                                       | 50,000 hours  | 50,000 hours                        |
|   | Touchscreen (optional)                                   | Type  | Analog Resistive 5 wires (ELO)      |
| Resolution                                  |  | Continuous  | 2048 x 2048                         |
| Light Transmission                          |  | 80 %  | 80 %                                |
| Controller                                  |  | USB Interface   | RS232 Interface (COM4)              |
| Durability (Touches)                        |  | 35 million  | 35 million                          |
| Environmental Specifications                | Operating Temperature                                    | 0-45° C (32-113° F)   |                                     |
|   | Relative Humidity  | 10 ~ 95 % @ 40° C, non-condensing                           |                                     |
|   | Shock  | 10 G peak acceleration (11ms duration)                      |                                     |
|   | Vibration  | 1 G   |                                     |
|   | EMC  | CE, FCC Class B, BSMI                                       |                                     |
|   | Safety   | CE CB, UL, BSMI, CCC, VCCI                                  |                                     |

## Dimensions

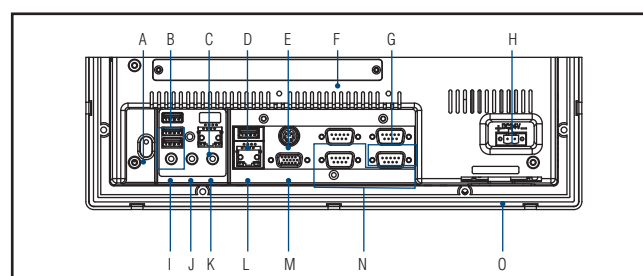
Unit: mm



## Ordering Information

| Part NO           | Description   |
|-------------------|---|
| PPC-L128T-081-XE  | Intel Atom processor N270 1.6 GHz Fanless panel PC with 12.1" TFT LCD (LED backlight) |
| PPC-L128T-R81-XE  | PPC-L128T-081-XE with resistive touchscreen (LED backlight)                           |
| PPC-L128T-080-XE  | Intel Atom processor N270 1.6 GHz fanless panel PC with 12.1" TFT LCD                 |
| PPC-L128T-R80-XE  | PPC-L128T-080-XE with resistive touchscreen   |
| PPC-L128T-R80-WXE | PPC-L128T-080-XE with resistive touchscreen (White)                                   |
| PPC-L128T-RXPE0E  | PPC-L128T w1G Memory/ Windows XPE XPE on 160G HDD                                     |
| PPC-ARM-A03       | VESA Stand ARM for PPC series   |
| PPC-174T-WL-MTE   | Wall mount kit for PPC series   |
| PPC-L126 STAND    | Stand desktop stand for PPC-L126T/PPC-L127T   |
| PPC-L128-EXPE     | PCI/PCIe expansion kit for PPC-L128   |
| PS-DC19-L157E     | 19V DC power adapter module for PPC-L128/PPC-L157                                     |
| 1700001524        | Power cord 3P UL 10A 125V 1.8M  |
| 170203183C        | POWER Code 3P Europe (WS-010+083)183cm  |
| 1700008921        | POWER CORD 3P/3P POWER SUPPLY 1.8M PSE  |
| 989KL128T00E      | Slim type DVD-RW Module for PPC-L128  |
| 989KL128T02E      | Wireless LAN module for PPC-L128T   |
| 2070008770        | XPE WES2009 PPC-L128T V4.0 MUI24(R80)   |
| 2070010364        | CE 6.0 Pro PPC-L128T V1.3 ENG(R81)  |
| 2070010549        | XPE WES2009 PPC-L128T V4.0 24MUI (R81)  |
| 2070010816        | WES7P SP1 x86 PPC-L128T V5.1 EN_JP_CT_CS ATI(R81)                                     |
| 2070010817        | WES7E SP1 x86 PPC-L128T V5.1 ENG ATI PSNL(R81)  |

## I/O Appearance



- A. Main power switch
- B. USB 2.0 x 3
- C. Ethernet jack
- D. USB 2.0
- E. PS/2 mouse and keyboard
- F. PCI/PCIe expansion slot cover
- G. GPIO port
- H. DC inlet
- I. Line-in jack
- J. Line-out jack
- K. Mic-in jack
- L. Ethernet jack
- M. VGA port
- N. Serial ports
- O. Battery door cover