

# PPC-174T

## Pentium® 4 Based Panel PC with 17" Color TFT LCD & Optional Touchscreen

NEW



### Features

- 17" TFT SXGA LCD
- Pentium® 4 CPU up to 3.06 GHz
- System memory up to 2 GB DDR SDRAM
- Built-in FDD / CD-ROM drive/speakers
- Built-in PCMCIA Type II x 2
- Two PCI expansion slots
- 10/100Base-T Ethernet (Gigabit optional)
- Rugged Aluminum die-cast housing with removable plastic front bezel
- Removable 3.5" HDD bay
- Optional 6-in-1 card reader (MS, SD, SM, MC and CF type I/II sockets)
- Resistive touch screen (optional)

### Introduction

The PPC-174T is a high performance and highly expandable panel PC. Equipped with a 17" Color TFT LCD, it features high performance, multimedia devices, connectors, and 2 PCI sockets for high expansion capacity. Because of its multifunctional design, the PPC-174T meets demands from multimedia applications and interactive kiosks that require big displays and more powerful computing performance.

### Specifications

- **CPU** Supports Socket 478 based Pentium® 4 CPU up to 3.06 GHz
- **Disk Drive Housing** Removable 3.5" HDD bay
- **Dimensions (W x H x D)** 446 x 382 x 127 mm (17.56" x 15.04" x 5")
- **Weight** 10 kg (22 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (3.5" HDD bay)
- **CD-ROM Drive** Compact 24X or above
- **DVD-ROM Drive** Optional 6X or above
- **CD-RW drive** Optional 8X/4X/24X or above
- **Memory** Supports up to DDR 333 SDRAM (184-pin)
- **FDD** Supports 720 KB / 1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface (Gigabit optional)
- **I/O ports**
  - 3 serial ports: RS-232 x 2, RS-232/422/485 x 1
  - Parallel port, USB 2.0 port x 4
  - PCMCIA Type II x 2
  - 6-in-1 cardreader: supports Compact Flash, Micro Drive, Smart Media, Secure Digital, Memory Stick & Multimedia Card
  - PS/2 mouse and keyboard interface
  - Mic-in, Line-in, Line-out, and game port
  - S-Video port
- **Bus Expansion** Two PCI expansion slots, one Mini PCI card

### Environmental Specifications

- **Operating Temperature** 0 ~ 45° C (32 ~ 113°F)
- **Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- **Shock** 10 G peak acceleration (11 msec. duration)
- **EMC** BSMI, VCCI, CE, FCC Class B
- **Safety** CB, CE, UL

### Touchscreen (Optional)

- | Types                       | Analog Resistive              | Capacitive    | Surface Acoustic Wave |
|-----------------------------|-------------------------------|---------------|-----------------------|
| ▪ <b>Resolution</b>         | Continuous                    | 1024 x 1024   | 4096 x 4096           |
| ▪ <b>Light Transmission</b> | 75%                           | 85%           | 91%                   |
| ▪ <b>Controller</b>         | RS-232 interface              |               |                       |
| ▪ <b>Power Consumption</b>  | +5 V @ 200 mA                 | +5 V @ 100 mA | +5 V @ 150 mA         |
| ▪ <b>Software Driver</b>    | Supports both DOS and Windows |               |                       |

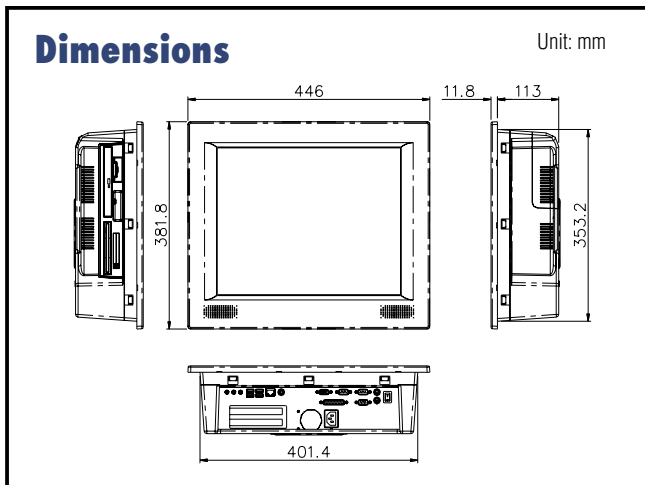
### LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Colors or Grayscales** 256K
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m<sup>2</sup>)** 260
- **Viewing Angle** 140°
- **Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs.
- **Backlight MTBF** 25,000 hrs.

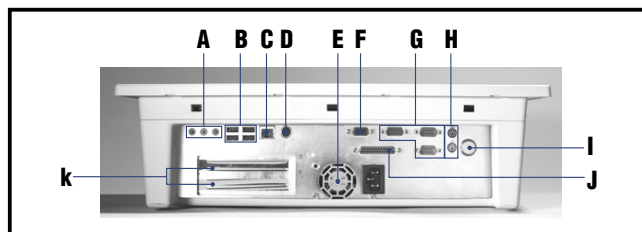
### Power Supply

- **Output Rating** 180 W (max.)
- **Input Voltage** 100~240 V<sub>AC</sub> @ 50~60Hz
- **Output Voltage** +3.3V @ 16.8A, +5V @ 12A, +12V @ 10A, -12V @ 0.8A, +5VSB @ 2A

- 1 Applied Panel Computing
- 2 Industrial Computers & Network Appliances
- 3 CompactPCI
- 4 HMI & Industrial Workstation
- 5 Industrial Communication
- 6 Industrial I/O
- 7 Embedded Computing
- 8 RISC Embedded Computing
- 9 eAutomation
- 10 eAutomation I/O (ADAM)
- 11 Digital Video Platform



## Fully Integrated I/O



- |                                       |                  |
|---------------------------------------|------------------|
| A. Line-in/Line-out/Mic-in            | G. COM port x 3  |
| B. USB 2.0 x 4                        | H. K/B & PS/2    |
| C. 10/100 Ethernet (Gigabit optional) | i. Power switch  |
| D. S-Video                            | j. Parallel port |
| E. ATX power supply                   | k. PCI slot x 2  |
| F. VGA port                           |                  |

## Feature Details

### Protection

The PPC-174T is robust enough to withstand harsh environments on factory floors and in an external environment. The die-cast housing also acts as a heat sink to prevent the system from overheating.

### Networking

Three serial ports and a 10/100Base-T Ethernet port (Gigabit optional) give the PPC-174T advanced networking capabilities and provide the best solution for versatile applications.

### Expansion

To extend its functionality, the PPC-174T is designed with two expansion slots for PCI cards, one Mini PCI slot, four USB 2.0 (Universal Serial Bus) ports, and one S-Video port, a 6-in-1 cardreader interface, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-174T not only functions as a HMI, but also as a computing center around which to build your application.

### Removable 3.5" HDD Bay

A 3.5" HDD is more reliable and cost-effective than a 2.5" HDD. The PPC-174T's 3.5" removable HDD drive bay provides great performance, and can be easily maintained.

### Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-174T a more user-friendly interface for different environments.

## Ordering Information

- **PPC-174T** (Bare BOM: **PPC-174T-BARE**)  
Panel PC with 17" TFT LCD display (resolution: 1280 x 1024)
- **PPC-174T-RT** (Bare BOM: **PPC-174T-BARE-T**)  
PPC-174T with resistive touchscreen
- **PPC-174T-CT** (Bare BOM: **PPC-174T-BARE-C**)  
PPC-174T with capacitive touchscreen
- **PPC-174T-ST** (Bare BOM: **PPC-174T-BARE-S**)  
PPC-174T with SAW touchscreen
- **PPC-174 Stand**  
Stand kit for PPC-174T
- **PPC-174 SWINARM**  
VESA standard ARM for PPC-174T
- **PPC-174 WL-MT**  
Wall mount kit for PPC-174T

\* Intel® Pentium® 4 CPU, DDR SDRAM and 3.5" HDD are available as optional items.



Removable 3.5" HDD bay