

PPC-174T

Panel PC with Intel® Pentium® 4 processor and 17" Color TFT LCD



Features

- 17" TFT SXGA LCD
- Intel® 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, capacitive, and SAW touch screens are available

Introduction

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
- **Combo drive** Optional DVD/CD-RW 8D/24W/24E/24R 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 CompactFlash, 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, CCC
- **Safety** CB, CE, UL

Touchscreen (Optional)

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

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Colors or Grayscales** 262 k
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m²)** 260
- **Contrast Ratio** 450:1
- **Viewing Angle** 70° (left), 70° (right), 70° (up), 70° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness
- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs.
- **Backlight MTBF** 50,000 hrs.

Power Supply

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

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-174T-SR** **(Bare BOM: PPC-174T-BARE-SR)**
PPC-174T with IrDA touchscreen with Sunlight
readable panel
- **PPC-174 Stand** Stand kit for PPC-174T
- **PPC-174 SWINGARM** VESA standard ARM for PPC-174T
- **PPC-174 WL-MT** Wall mount kit for PPC-174T
- **PPC-174 RACK-MT** 19" Rack Mounting kit for PPC-174(9U)

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

* FDD, CD-ROM and PCMCIA are removable as OEM items

* Infrared touchscreen and sunlight readable panel can be separated as OEM items

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

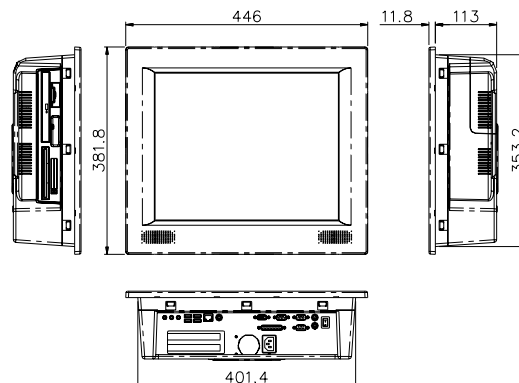
A 3.5" HDD is more reliable and cost-effective than a 2.5" HDD. The PPC-174T's 3.5" removable HDD drive bay provides great performance, and can be easily maintained.

Touchscreen Options

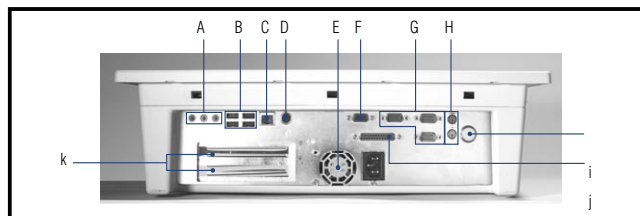
Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-174T a more user-friendly interface for different environments.

Dimensions

Unit: mm



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 | |



Removable 3.5" HDD bay