PPC-174T

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

Features

- 17" TFT SXGA LCD
- Pentium® 4 CPU up to 3.06 GHz
- System memory up to 2GB 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" TFT color LCD, it features high performance, multimedia devices, connectors, and 2 PCI socket for high expansion capacity. Because of its multi functional design, the PPC-174T meets demands from multimedia applications and interactive KIOSK areas that require big-size display and more powerful computing performance.

Protection

The PPC-174T is robust enough to withstand harsh environment in factory floors and external environment. The diecast 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, 6-in-1 cardreader interface, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-174T not only function as an 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 performace, and can be easily maintained.
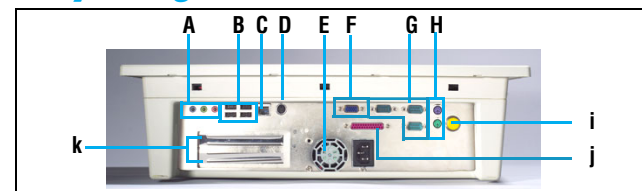
Touchscreen Options

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

LCD Display

Model	PPC-174T
Display type	TFT color LCD
Size (Diagonal)	17"
Max. resolution	1280 x 1024
Max. colors or grayscales	256K
Pixel pitch (mm)	0.264 x 0.264
Luminance (cd/m2)	260
Viewing angle	140°
Temperature	0 ~ 50°
VR Controls	Brightness
Simultaneous mode	Yes
LCD MTBF	50,000 hrs.
Backlight MTBF	25,000 hrs.

Fully Integrated I/O

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

General Purpose Panel Computers

Note: All specifications subject to change without notice

Specifications

- **CPU:** Supports Socket 478 based Pentium®4 CPU up to 3.06 GHz
- **Disk drive housing:** Removable 3.5" HDD bay
- **Dimensions:** 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
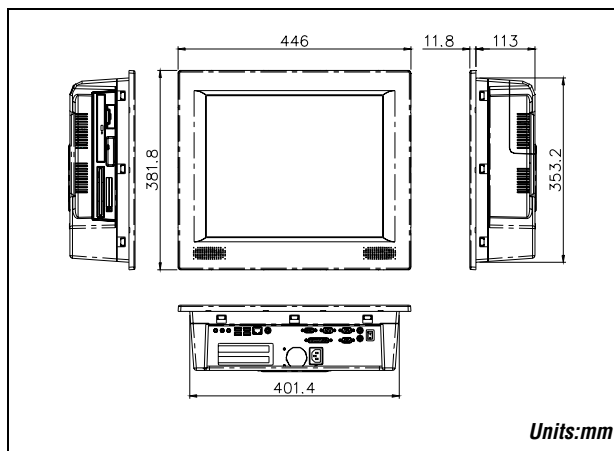
Power Supply:

AC Model
- **Output rating:** 200 W (max.)
- **Input voltage:** 115 VAC / 4A ~ 230VAC / 2A @ 50 ~ 60 Hz
- **Output voltage:** +3.3V @ 16A, +5V @ 12A, +12V @ 12A, -12V @ 0.8A, +5VSB @ 2A

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:** UL,CE, CB

Removable 3.5" HDD bay

Units:mm

Touchscreen (Optional)

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

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

Optional Items:

- ❑ **PPC-174 Stand:** Stand kit for PPC-174T
- ❑ **PPC-174 SWINARM:** VESA standard ARM for PPC-174T

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