

# PPC-153T

## Pentium® III/Celeron™ Based Panel PC with 15" Color TFT LCD & Optional Touchscreen



### Features

- 15" TFT XGA LCD
- Pentium® III CPU up to 1.26 GHz or Celeron™ CPU up to 1.2 GHz
- System memory up to 1 GB SDRAM
- Built-in FDD / CD-ROM drive
- Built-in PCMCIA Type II x 2
- One PCI/ISA expansion slot
- 10/100Base-T Ethernet
- Removable front bezel

### Introduction

The PPC-153T is a Pentium® III Socket 370 based Panel PC with 15" color TFT LCD (resolution up to 1024 x 768). It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface serves as an excellent host for information appliances.

### Specifications

- **CPU** Supports Socket 370 based Pentium® III CPU, up to 1.26 GHz or Celeron™ CPU up to 1.2 GHz
- **Disk Drive Housing** Room for one 2.5" HDD
- **Dimensions (W x H x D)** 420 x 323 x 106 mm (16.54" x 12.72" x 4.17")
- **Weight** 6.5 kg (14.3 lbs)
- **Front Panel Protection** IP 65/NEMA 4 compliant (not for SAW model)
- **HDD** IDE HDD interface (2.5" 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 1 GB SDRAM (168-pin)
- **FDD** Supports 720 KB / 1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface
- **I/O Ports**
  - 4 serial ports: RS-232 x 3, RS-232/422/485 x 1
  - 1 parallel port, 2 USB ports
  - PCMCIA Type II x 2
  - 1 PS/2 mouse and keyboard interface
  - Mic-in, Line-in, Line-out, and game port
- **Bus Expansion** One expansion slot for half-size PCI/ISA card

#### Power Supply

##### AC model

- **Output Rating** 80 W (max.)
- **Input Voltage** 100 ~ 250 V<sub>AC</sub>, auto-switching @ 50 ~ 60 Hz
- **Output Voltage** +5 V @ 12 A, +12 V @ 1 A

##### DC 24/48V Model

- **Output Rating** 74 watts
- **Input Voltage** 18 V<sub>DC</sub> ~ 56 V<sub>DC</sub>, typical 24 V<sub>DC</sub> @ 7A max, 48 V<sub>DC</sub> @ 4A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5A

#### DC 12V model (optional)

- **Output Rating** 80 watts
- **Input Voltage** 9 V<sub>DC</sub> ~ 18 V<sub>DC</sub>, typical 12 V<sub>DC</sub> @ 12A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5A

#### 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, CB, CE

#### 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 (uses COM4)  | RS-232 interface (uses COM4) | RS-232 interface (uses COM4) |
| ▪ <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 |                              |                              |
| ▪ <b>Durability (Touches lifetime)</b> | 30 million                    | 20 million                   | 50 million                   |

#### LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 256 K or 16 M
- **Pixel Pitch (mm)** 0.297 x 0.297
- **Luminance (cd/m<sup>2</sup>)** 250
- **Viewing Angle** 120°
- **Temperature** 0 ~ 50° C
- **VR Controls** Brightness

## Specifications Cont.

- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs.
- **Backlight MTBF** 25,000 hrs.

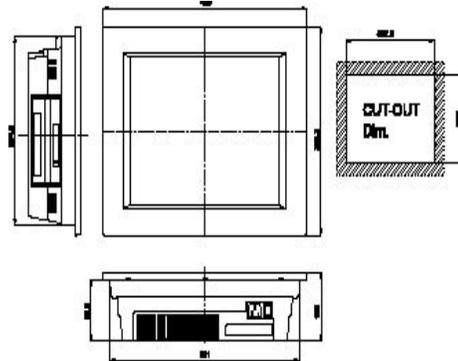
## Ordering Information

- **PPC-153T** **(Bare BOM: PPC-153T-CBAR)**  
Panel PC with 15"/12.1" TFT LCD display (resolution: 1024 x 768)
- **PPC-153T-RT** **(Bare BOM: PPC-153T-CBAR-T)**  
PPC-153T with resistive touchscreen
- **PPC-153T-CT** **(Bare BOM: PPC-153T-CBAR-C)**  
PPC-153T with capacitive touchscreen
- **PPC-153T-ST** **(Bare BOM: PPC-153T-CBAR-S)**  
PPC-153T with SAW touchscreen
- **PPC-153T-DC** **(Bare BOM: PPC-153DC-CBAR)**  
PPC-153T with DC power supply (74W 24 V<sub>DC</sub> / 48 V<sub>DC</sub> are standard; 12 V<sub>DC</sub> is optional)
- **PPC-153T-DC-RT** **(Bare BOM: PPC-153DC-CBA-T)**  
PPC-153T-DC with resistive touchscreen (74W 24 V<sub>DC</sub> / 48 V<sub>DC</sub> are standard; 12 V<sub>DC</sub> is optional)
- **PPC-120 STAND**  
Stand kit for PPC-154/153/150 and PPC-123/120 series
- **PPC-150 SWINARM**  
Swing arm kit for PPC-154/153/150 series
- **PPC-120 WL-MT**  
Wall mount kit for PPC-154/153/150 and PPC-123/120 series
- **PPC-ARM-A02**  
VESA standard ARM for PPC-123/153 series

\* Intel® Pentium® III and Celeron™ CPU, SDRAM and 2.5" HDD are available as optional items.

## Dimensions

Unit: mm



## Feature Details

### Protection

To meet the requirements of a public environment, the front panel of PPC-153T complies with the IP 65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function, which prevents the CPU from becoming overheated.

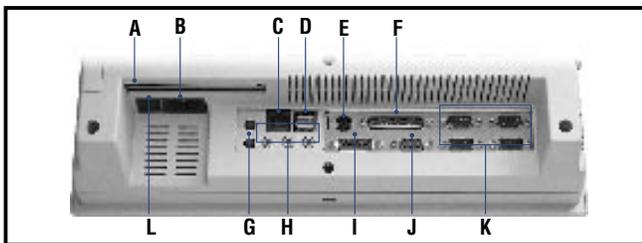
### Networking

Four serial ports and a 10/100Base-T Ethernet controller give the PPC-153T advanced networking capabilities and provide the best solution for versatile applications.

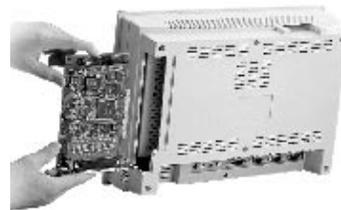
### Expansion

To extend functionality, the PPC-153T is designed with one expansion slot for PCI/ISA cards, two USB (Universal Serial Bus) ports, and one PCMCIA card bus (Type II x 2). With these expansion capabilities, the PPC-153T does not only function as a HMI, but also as a computing center around which to build your application.

## Fully Integrated I/O



- |                               |                            |
|-------------------------------|----------------------------|
| A. Expansion slot (PCI/ISA)   | G. VR                      |
| B. AC-inlet                   | H. Mic-in/Line-out/Line-in |
| C. 10/100Base-T Ethernet port | I. MIDI/Game port          |
| D. USB                        | J. VGA port                |
| E. Keyboard/Mouse             | K. COM ports               |
| F. Parallel port              | L. Power switch            |



PCI/ISA expansion slot

### Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-153T's modular design. In order to replace a defective LCD or touchscreen, one merely needs to remove the front cover and LCD bracket instead of disassembling the whole system.

### Touchscreen Options

Customers can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-153T a more user-friendly interface for different environments.

- 1 General Purpose Panel Computers
- 2 Open-frame Panel Computers
- 3 Medical Computing Platforms
- 4 Smart Home Networking Platforms