

# PPC-123M PPC-153M

**Medical Certified Pentium III/Celeron based Panel PC with 12.1" Color TFT LCD & Optional Touchscreen**  
**Medical Certified Pentium III/Celeron based Panel PC with 15" Color TFT LCD & Optional Touchscreen**



## Features

- Medical certified Panel PC
- UL60601-1/EN60601-1, CE & FCC Class B certified

## Introduction

The PPC-153M/123M is a UL2601/EN60601 certified Intel® Pentium® III Socket 370 based Panel PC with 15.0"/12.1" TFT color LCD (resolution up to 1024 x 768/800 x 600). 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 GHz
- Disk Drive Housing** Room for one 2.5" HDD
- Dimensions** 420 x 323 x 106 mm (16.54" x 12.72" x 4.17")/  
375 x 285.5 x 104.4 mm (14.76" x 11.24" x 4.11")
- Weight** 6.5 kg (14.3 lb)/5.2 kg (11.5 lb)
- Front Panel Protection** IP65/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

Touchscreen 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 (Lifetime touches)</b>	30 million	20 million	50 million

## Power Supply

- 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
- MTBF** 500,000 hrs
- Safety** Meets UL2601-1, EN60601-1, CSA22.2 No. 601-1, TUV EN60601-1
- EMI/EMS** Meets FCC/CE Class B

## Environmental Specifications

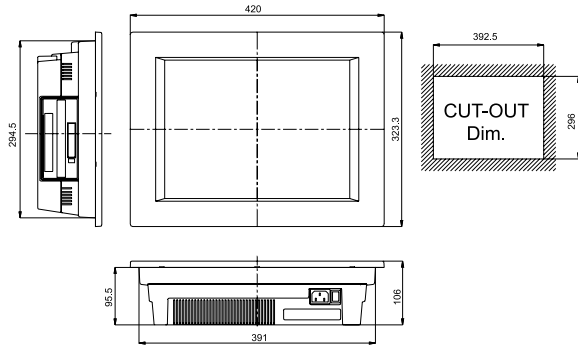
- Operating Temperature** 0 ~ 45° C (32 ~ 113° F)
- Relative Humidity** 10 ~ 95% @ 40° C, non-condensing
- Shock** 10 G peak acceleration (11 msec. duration)
- EMC** VCCI/BSM/CE/FCC Class B
- Safety** Meets UL/CSA/CE

Model	PPC-153M	PPC-123M
<b>Display Type</b>	TFT color LCD	TFT color LCD
<b>Size (Diagonal)</b>	15"	12.1"
<b>Max. Resolution</b>	1024 x 768	800 x 600
<b>Max. Colors or Grayscales</b>	256 k	256 k
<b>Pixel Pitch (mm)</b>	0.297 x 0.297	0.31 x 0.31
<b>Luminance (cd/m²)</b>	250	300
<b>Viewing Angle</b>	120°	90°
<b>Operating Temperature</b>	0 ~ 50° C	0 ~ 50° C
<b>VR Controls</b>	Brightness	Brightness
<b>Simultaneous Mode</b>	Yes	Yes
<b>LCD MTBF</b>	50,000 hrs.	50,000 hrs.
<b>Backlight MTBF</b>	25,000 hrs.	25,000 hrs.

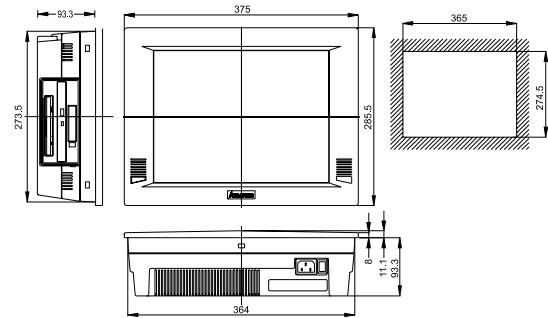
## Dimensions

Unit: mm

### PPC-153M



### PPC-123M



## Ordering Information

- **PPC-123M** Medical Certified Pentium III/Celeron based Panel PC with 12.1" Color TFT LCD & Optional Touchscreen
- **PPC-123M-CT** PPC-123M with capacitive touchscreen
- **PPC-123M-RT** PPC-123M with resistive touchscreen
- **PPC-123M-CBAR** PPC-123M with Bare BOM
- **PPC-123M-CBAR-C** PPC-123M-CT with Bare BOM
- **PPC-123M-CBAR-T** PPC-123M-RT with Bare BOM
- **PPC-153M** Medical Certified Pentium III/Celeron based Panel PC with 15" Color TFT LCD & Optional Touchscreen
- **PPC-153M-CT** PPC-153M with capacitive touchscreen
- **PPC-153M-RT** PPC-153M with resistive touchscreen
- **PPC-153M-ST** PPC-153M with SAW touchscreen
- **PPC-153M-CBAR** PPC-153M with Bare BOM
- **PPC-153M-CBAR-C** PPC-153M-CT with Bare BOM
- **PPC-153M-CBAR-T** PPC-153M-RT with Bare BOM
- **PPC-153M-CBAR-S** PPC-153M-ST with Bare BOM
- **PPC-120 STAND** Stand kit for PPC-153/150 and PPC-123/120 series
- **PPC-150 SWINARM** Swing arm kit for PPC-153/150 series
- **PPC-120 WL-MT** Wallmount kit for PPC-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 optional.

## Feature Details

### UL2601/EN60601 Certified

Electronic products for medical use must be designed for safety, minimum interaction with other electronic devices, and for military-grade reliability. More specifically, they must conform to UL60601-1 in the United States and EN60601 (including both EN60601-1-1, EN60601-1-2) in Europe. The goal of these standards is to ensure that all medical electronic products provide a high level of safety for operators and patients.

The PPC-153M/123M is medical-certified panel computer with UL60601-1/EN60601 approval, and the low leakage current power supply enables the series to serve as an ideal and secure point-of-care solution for the patients and hospital practitioners.

### Protection

To meet the requirements of a public environment, the PPC-153M/123M complies with the IP 65/NEMA 4 protection standard. The watchdog timer and power management features make the system even more secure and stable. The on-board hardware monitoring feature provides automatic protection function, which prevents the CPU from overheating.

### Networking

Four serial ports and a 10/100Base-T Ethernet controller give the PPC-153M/123M advanced networking capabilities and provide the best solution for versatile applications.

### Expansion

To extend functionality, the PPC-153M/123M 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-153M/123M not only functions as an HMI, but also as a computing center around which to build your application.

### Touchscreen Options

The customer can choose from three types of touchscreen options: resistive, capacitive and SAW. All three kinds of touchscreens are standard; customers can easily order according to their needs. Multiple touchscreen options make the PPC-153M/123M an adaptable, user-friendly interface for integration systems in different environments.