PPC-123T

Pentium® III/Celeron™ Based Panel PC with 12.1" Color TFT LCD & Optional Touchscreen
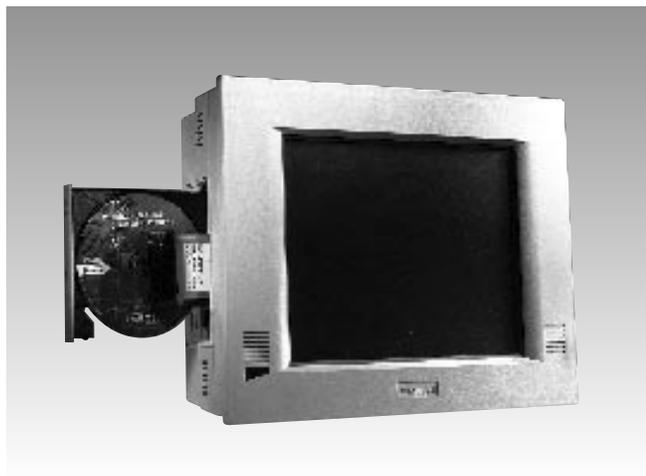
Features

- 12.1" TFT SVGA 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 / speakers
- Built-in PCMCIA Type II x 2
- One PCI/ISA expansion slot
- 10/100Base-T Ethernet
- IrDA Data transmission

Introduction

The PPC-123T is a Pentium® III Socket 370 based Panel PC with 12.1" TFT color LCD (resolution up to 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 a great 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)**   375 x 285.5 x 104.4 mm (14.76" x 11.24" X 4.11")
- **Weight**   5.2 kg (11.5 lbs)
- **Front Panel Protection**   IP 65/NEMA 4 compliant
- **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_{AC}, 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_{DC} ~ 56 V_{DC}, typical 24 V_{DC} @ 7A max, 48 V_{DC} @ 4A max
- **Output Voltage**   +5 V @ 10A, +12 V @ 1.5A

DC 12V Model (optional)

- **Output Rating**   80 watts
- **Input Voltage**   9 V_{DC} ~ 18 V_{DC}, typical 12 V_{DC} @ 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, CSA, CE

Touchscreen (Optional)

	Analog Resistive	Capacitive
Types	Analog Resistive	Capacitive
Resolution	Continuous	1024 x 1024
Light Transmission	75%	85%
Controller	RS-232 interface (uses COM4)	RS-232 interface (uses COM4)
Power Consumption	+5 V @ 200 mA	+5 V @ 100 mA
Software Driver	Supports both DOS and Windows	
Durability (Touches lifetime)	30 million	20 million

LCD Display

- **Display Type**   Color TFT LCD
- **Size (Diagonal)**   12.1"
- **Max. Resolution**   800 x 600
- **Max. Colors or Grayscales**   256 K
- **Pixel Pitch (mm)**   0.31 x 0.31
- **Luminance (cd/m²)**   300
- **Viewing Angle**   90°
- **Temperature**   0 ~ 50° C
- **VR Controls**   Brightness
- **Simultaneous Mode**   Yes
- **LCD MTBF**   50,000 hrs.
- **Backlight MTBF**   25,000 hrs.

Ordering Information

- **PPC-123T** **(Bare BOM: PPC-123T-CBAR)**
  Panel PC with 15"/12.1" TFT LCD display
  (resolution: 800 x 600)
- **PPC-123T-RT** **(Bare BOM: PPC-123T-CBAR-T)**
  PPC-123T with resistive touchscreen
- **PPC-123T-CT** **(Bare BOM: PPC-123T-CBAR-C)**
  PPC-123T with capacitive touchscreen
- **PPC-123T-DC** **(Bare BOM: PPC-123DC-CBAR)**
  PPC-123T with DC power supply (74W 24 V_{DC}/48 V_{DC}
  are standard; 12 V_{DC} is optional)
- **PPC-123T-DC-RT** **(Bare BOM: PPC-123DC-BBA-T)**
  PPC-123T-DC with resistive touchscreen
  (74W 24 V_{DC} /48 V_{DC} are standard; 12 V_{DC} is optional)
- **PPC-120 STAND** Stand kit for PPC-154/153/150 and PPC-123/120 series
- **PPC-120 SWINARM** Swing arm kit for PPC-123/120 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-123T 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-123T advanced networking capabilities and provide a great solution for versatile applications.

Expansion

To extend functionality, the PPC-123T 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-123T does not only function as a HMI, but also as a computing center around which to build your application.

Touchscreen Options

You can choose from three optional types of standardized touchscreens: resistive, capacitive and SAW (Surface Acoustic Wave). These options make the PPC-123T a more user-friendly interface for different environments.

Side-access CD-ROM, FDD and PCMCIA slot
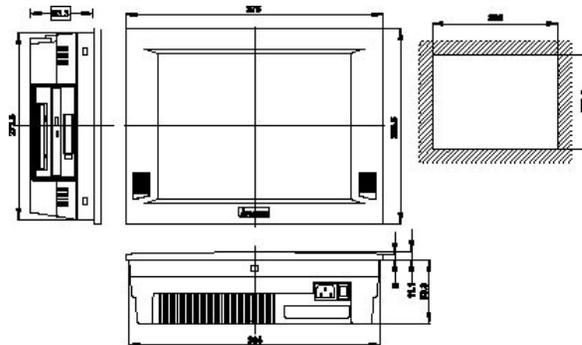
Fully Integrated I/O
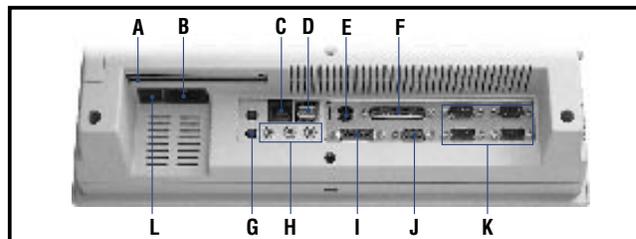
A. Expansion slot (PCI/ISA)
B. AC-inlet
C. 10/100Base-T Ethernet port
D. USB
E. Keyboard/Mouse
F. Parallel port
G. VR
H. Mic-in/Line-out/Line-in
I. MIDI/Game port
J. VGA port
K. COM ports
L. Power switch

General Purpose Panel Computers

Open-frame Panel Computers

Medical Computing Platforms

Smart Home Networking Platforms