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Find the *Advantech PPC-153T* at our website: *Click HERE*

PPC-153T

Panel PC with 15" Color TFT LCD and Intel® Pentium® III/Celeron® Processor



Features

- 15" TFT XGA LCD
- Intel® Pentium® III CPU up to 1.26 GHz or Intel 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 Intel 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 1 x 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 (default)** 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 1 GB SDRAM (168-pin)
- **FDD** Supports 720 KB/1.44 MB FDD
- **Network (LAN)** 10/100Base-T Ethernet interface
- **I/O Ports**
  - 4 x serial ports: 3 x RS-232, 1 x RS-232/422/485
  - 1 x parallel port, 2 x USB ports
  - 2 x PCMCIA Type II
  - 1 x PS/2 mouse and keyboard interface
  - Mic-in, Line-in, Line-out, and game port
- **Bus Expansion** 1 x 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 W
- **Input Voltage** 18 V_{DC} ~ 56 V_{DC}, typical 24 V_{DC} @ 7 A max, 48 V_{DC} @ 4 A max
- **Output Voltage** +5 V @ 10A, +12 V @ 1.5 A

DC 12V model (optional)

- **Output Rating** 80 W
- **Input Voltage** 9 V_{DC} ~ 18 V_{DC}, typical 12 V_{DC} @ 12 A max
- **Output Voltage** +5 V @ 10 A, +12 V @ 1.5 A

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** UL, CB, CE

Touchscreen (Optional)

Types	Analog Resistive	Capacitive	Surface Acoustic Wave	Infrared
Resolution	Continuous	1024 x 1024	4096 x 4096	4096 x 4096
Light Transmission	80%	91.5%	91%	91%
Controller	RS-232 interface (uses COM4)			
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			
Durability (Touches lifetime)	35 million	225 million	50 million	100,000 hrs

LCD Display

- **Display Type** Color TFT LCD
- **Size (Diagonal)** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors or Grayscales** 262 K
- **Pixel Pitch (mm)** 0.297 x 0.297
- **Luminance (cd/m²)** 350
- **Contrast Ratio** 400 : 1
- **Viewing Angle** 60° (left), 60° (right), 40° (up), 60° (down)
- **Operating Temperature** 0 ~ 50° C
- **VR Controls** Brightness (0 ~ 100%)

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Specifications Cont.

- **Simultaneous Mode** Yes
- **LCD MTBF** 50,000 hrs

Ordering Information

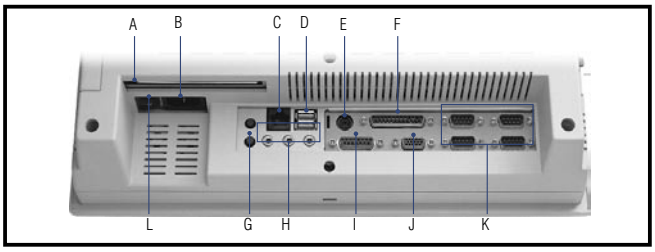
Part No.	Description
PPC-153T-CBARE	Panel PC with 15"/12.1" TFT LCD display (resolution: 1024 x 768)
PPC-153T-CBAR-TE	PPC-153T with resistive touchscreen
PPC-153T-CBAR-CE	PPC-153T with capacitive touchscreen
PPC-153T-CBAR-SE	PPC-153T with SAW touchscreen
PPC-153DC-CBARE	PPC-153T with DC power supply (74W 24 V_{DC}/48 V_{DC} are standard; 12 V_{DC} is optional)
PPC-153DC-CBA-TE	PPC-153T-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-150 SWINARM	Swingarm kit for PPC-154/153/150 series
PPC-153 RACK-MT	19" Rack Mounting Kit for PPC-153(8U)
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.

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

* Infrared touchscreen with sunlight readable panel could be ordered via OEM process, and both of items can be ordered separately

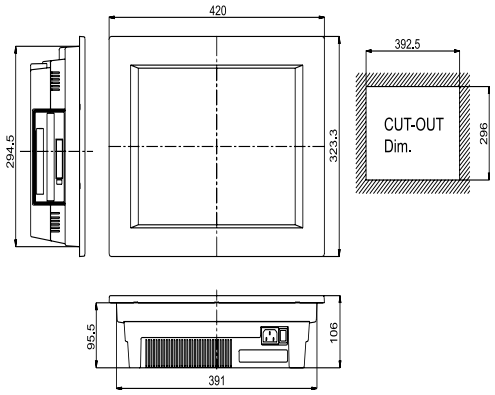
Fully Integrated I/O



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

Dimensions

Unit: mm



Feature Details

Protection

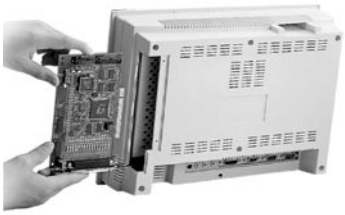
To meet the requirements of a public environment, the front panel of PPC-153T complies with the IP 65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides automatic protection function,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



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.

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