

# PPC-105T

## GX1 300 based Fanless Panel PC with 10" Color TFT LCD & Optional Touchscreen



### Features

- 10.4" TFT SVGA LCD
- AMD Geode™ GX1 300 MHz CPU on board
- System memory up to 128 MB SDRAM (64 MB default built-in)
- One internal CompactFlash® Type I socket (True IDE Mode)
- Optional PCI/ISA expansion kit
- 10/100Base-T Ethernet
- Fanless and low-power design
- External IDE/FDD connectors

### Introduction

PPC-105T fanless Panel PC supports the low power AMD Geode GX1 300 MHz processor. It is a powerful and compact Panel PC ideally suited for operator interface (HMI) applications. Its 10" 800 x 600 SVGA display, onboard 16-bit SoundBlaster™ compatible audio controller, 128 MB SDRAM capacity and auto-sensing 10/100Base-T Ethernet controller makes it the ideal choice for many applications. For example, thin clients, health care and other networked environments, in addition to traditional process control industrial automation.

### Specifications

- **CPU** Onboard NS Geode. GX1 300 MHz
- **Memory** One 144 pin SODIMM socket up to 128 MB SDRAM. Standard is built-in 64 MB
- **2nd Cache Memory** On-die 16 KB
- **Chipset** AMD CX 5530
- **BIOS** Award 256 KB Flash BIOS
- **SSD** Supports one internal CompactFlash Type I socket. (True IDE mode)
- **HDD** One internal 2.5" drive and one external IDE connector
- **FDD** External FDD connector x 1
- **Combo Drive** External IDE connector x 1
- **Watchdog Timer** 62-level, 1 ~ 62 seconds
- **Bus Expansion** One optional PCI/ISA slot
- **Dimensions (W x H x D)** 342 x 265 x 92.4 mm (13.5" x 10.4" x 3.64")
- **Weight** 3.2 kg (7.1 lbs)

#### Complete I/O Ports

- **FDD** Supports one 1.2/1.44/2.88 MB external floppy disk drive
- **HDD** Supports two EIDE ports (one internal/one external)
- **Serial Ports** RS-232 x 3, one RS-232/422/485 x 1
- **Parallel Port** One SPP/EPP/ECP port
- **Keyboard/Mouse Port** PS/2 interface
- **VGA** Supports simultaneous CRT displays
- **Sound** Mic-in/Line-out

#### Environmental Specifications

- **Operating Temperature** 0 ~ 40° C (32 ~ 104° F)
- **Relative Humidity** 10 ~ 95% @ 40° C (non-condensing)
- **Shock (Operating)** 10 G peak acceleration (11 ms. duration)
- **EMC** CE, FCC Class B
- **Safety** UL, CE
- **Front Panel Protection** IP 65/NEMA 4 compliant

#### LCD Display (Anti-Glare Treated)

- **LCD Type** 10.4" color SVGA TFT LCD
- **Resolution/Colors** 800 x 600 @ 262 K
- **Pixel Pitch (mm)** 0.264 x 0.264
- **Luminance (cd/m<sup>2</sup>)** 230
- **Viewing Angle** 100 (min)
- **VR Adjustment** Yes
- **Simultaneous Mode** Yes
- **Backlight MTBF** 20,000 hrs (min.)

#### Power Supply

##### AC model

- **Output Rating** 60 W
- **Input Voltage** 100 ~ 240 V<sub>AC</sub> @ 50/60 Hz, autoranging
- **Output Voltage** +5 V @ 5 A, +12 V @ 3 A

##### DC model (24V DC)

- **Output Rating** 75 W
- **Input Voltage** 18 V<sub>DC</sub> ~ 36 V<sub>DC</sub>, typical 24 V<sub>DC</sub>, 4.2 A max
- **Output Voltage** +5 V @ 8 A, +12 V @ 2.5 A

##### DC model (12V DC for option)

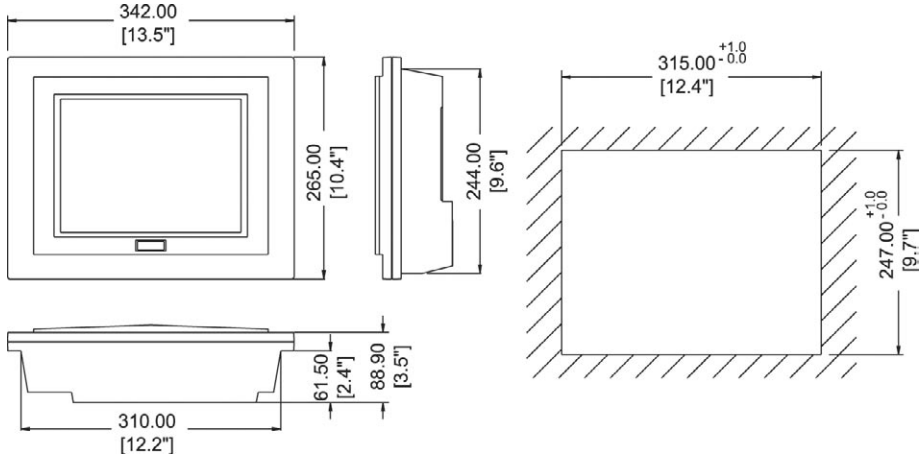
- **Output Rating** 65 W
- **Input Voltage** 9.5 V<sub>DC</sub> ~ 18 V<sub>DC</sub>, typical 12 V<sub>DC</sub>, 6.8 A max
- **Output Voltage** +5 V @ 7 A, +12 V @ 2 A

#### Touchscreen (optional)

- **Type** Analog resistive, continuous resolution
- **Light Transmission** 75%
- **Controller** RS-232 interface (COM 4)
- **Software Driver** Supports Windows 95, 98, NT
- **Lifetime** 30 million touches

**Dimensions**

Unit: mm (inch)



**Ordering Information**

- **PPC-105T** **Bare BOM: PPC-105T-ABAR**  
Panel PC with 10.4" TFT SVGA LCD display, NS GX1 300 MHz CPU and 64 MB SDRAM on-board  
**Bare BOM: PPC-105DC-ABAR**  
PPC-105T with 24V<sub>DC</sub> power supply (12 V<sub>DC</sub> is optional) with resistive touchscreen
- **PPC-105T-RT** **Bare BOM: PPC-105T-ABAR-T**  
PPC-105T with resistive touchscreen  
**Bare BOM : PPC-105DC-ABA-T**  
PPC-105T-RT with 24 V<sub>DC</sub> power supply (12 V<sub>DC</sub> is optional)
- **PPC-105 Rack MT** 19" Rack Mounting kit for PPC-103/PPC-105.
- **PPC-100 Stand** Stand kit for the PPC-100/102/103/105 series
- **PPC-100 SWINGARM** Swing arm kit for the PPC-100/103/105 series
- **PPC-100 WALL-MT** Wall mount kit for the PPC-100/103/105 series
- **PPC-EXP-105** PCI/ISA expansion kit for PPC-105T

**Feature Details**

**Various applications use PPC-105T**

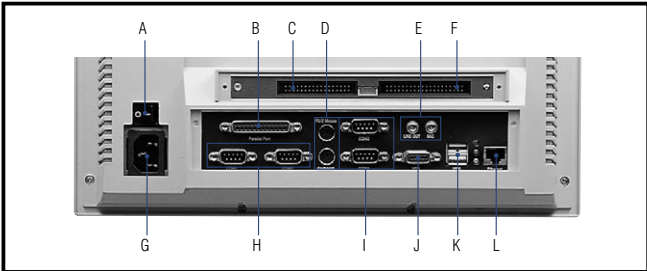
PPC-105T's back panel I/O and integrated all-in-one single board computer make it the ideal choice to control a dedicated system in a wide variety of applications. Applications include:

- Control or data entry operator interfaces
- Information management and retrieval terminals
- Entertainment management systems
- Point of sale (POS) terminals
- Banking/office automation

**Slim and compact PC terminal with LCD**

The PPC-105T is the most versatile 10" LCD PC available. The slim chassis fits anywhere and can be mounted in several different configurations. It can be panel mounted, wall mounted or placed upright on a desktop. Integrating the PPC-105T into a custom system is made simple through its open-system design and comprehensive back panel I/O interface.

**Fully-Integrated I/O**



- A. Power switch
- B. Parallel port
- C. FDD port
- D. PS/2 mouse & keyboard
- E. Mic-in/Line-out
- F. IDE port
- G. AC inlet
- H. COM ports
- I. COM ports
- J. VGA port
- K. USB ports
- L. Ethernet