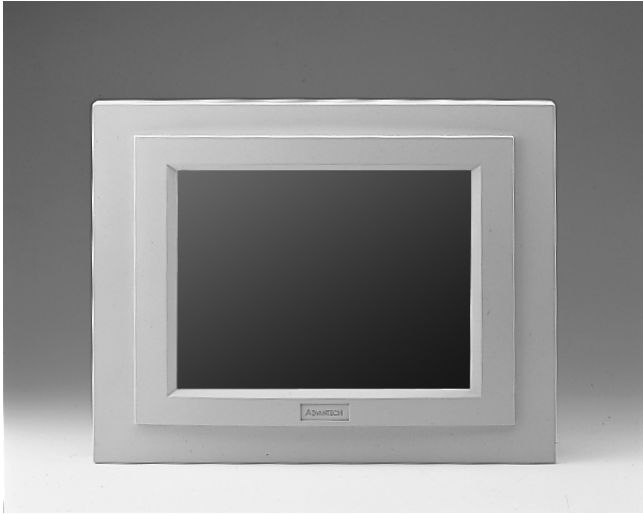


# PPC-105T

## Panel PC GX1 300 with 10" TFT LCD



### Introduction

The PPC-105 fanless Panel PC supports low power NS Geode GX1 300 MHz processors. It is a powerful and compact Panel PC ideally suited for operator interface (HMI) applications. Its 10" 800 x 600 SVGA display, on-board 16-bit Sound Blaster compatible audio controller, up to 128 MB SDRAM capacity and auto-sensing 10/100Base-T Ethernet controller make it the ideal choice for thin client applications, health care and other network environments in addition to traditional process control and industrial automation.

#### Various applications use the PPC-105

The PPC-105'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-105 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-105 into a custom system is made simple through its open-system design and comprehensive back panel I/O interface.

#### 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



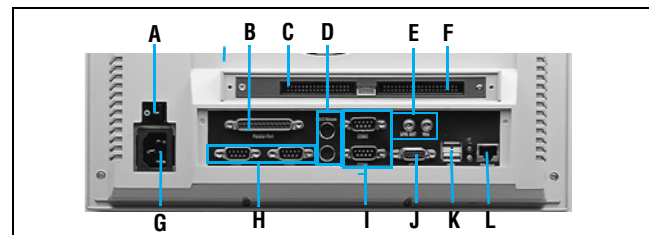
### Features

- 10" TFT SVGA LCD
- NS 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

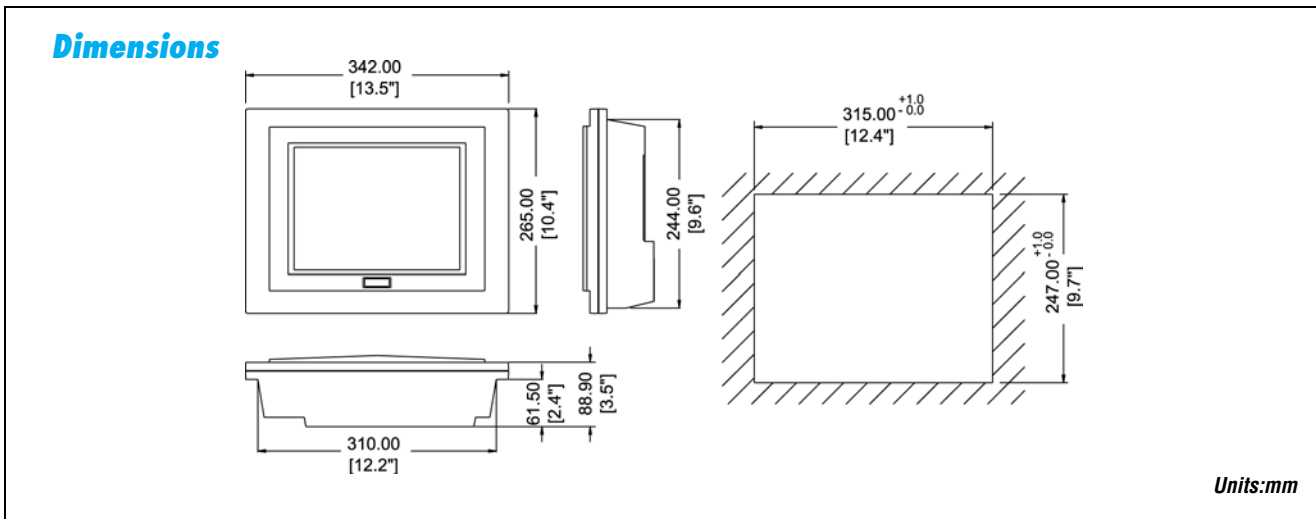
### Specifications

- **CPU / Max. Clock:** NS Geode. GX1 300 MHz on-board
- **Max. System Memory:** 2nd Cache Memory: On-die 16 KB
- **Module Type:** 144 pin SODIMM socket x 1
- **2nd Cache Memory:** On-die 16 KB
- **Chipset:** NS CX 5530
- **BIOS:** Award 256 KB Flash BIOS
- **SSD:** Supports one internal compactFlash type. Socket shared with one IDE channel
- **SSD / Type:** One CompactFlash Type I socket
- **HDD / Type:** One internal 2.5" drive and one external IDE connector
- **FDD / Type:** Supports one external FDD connector
- **CD-ROM Drive:** Supports one external IDE connector
- **DVD-ROM Drive:** N/A
- **Watchdog Timer:** 62-level, 1 ~ 62 seconds
- **Expansion:** One optional PCI/ISA slot
- **Size (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)

### Fully Integrated I/O



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



## LCD Display (Anti-Glare Treatment)

MODEL	PPC-105T
LCD Type	10", color SVGA TTL LCD
Resolution/Colors	800 x 600 @ 256 K
Pixel pitch (mm)	0.25 x 0.25
Luminance (cd/m <sup>2</sup> )	170°
Viewing angle	100°
VR adjustment	Yes
Simultaneous mode	Yes
LCD lifetime	50,000 hrs.
Backlight MTBF	20,000 hrs (min.)

## Power Supply

### AC model:

- **Output rating:** 60 Watts
- **Input voltage:** 100 ~ 240 V<sub>AC</sub> @ 50/60 Hz, autoranging
- **Output voltage:** +5 V @ 5 A, +12 V @ 3 A. DC model:
- **Output rating:** 75 watts
- **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(optional):

- **Output rating:** 65 watts
- **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® 98, NT
- **Lifetime:** 30 million touches

## 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

## Ordering Information

- PPC-105T**  
**Bare BOM:** PPC-105T-BARE  
 Panel PC with 10" TFT SVGA LCD display, NS GX1 300 MHz CPU and 64 MB SDRAM on-board  
**Bare BOM:** PPC-105DC-BARE  
 PPC-105T with 24V<sub>DC</sub> power supply (12 V<sub>DC</sub> is optional) PPC-L126T-070 with resistive touchscreen
- PPC-105T-RT**  
**Bare BOM:** PPC-105T-BARE-T  
 PPC-105T with resistive touchscreen  
 PPC-105DC-BAR-T  
 PPC-105T-RT with 24 V<sub>DC</sub> power supply (12 V<sub>DC</sub> is optional)

### Optional Items

- PPC-100 Stand:**  
Stand kit for the PPC-100/102/103/105 series
- PPC-100 SWINGARM:**  
Swing arm kit for the PPC-100/102/103/105 series
- PPC-100 WALL-MT:**  
Wall mount kit for the PPC-100/102/103/105 series
- PPC-EXP-105:**  
PCI/ISA expansion kit for PPC-105