PPC-125T

12" Panel PC with Intel® Core ™2 Duo Processor

Features

- 12.1" TFT XGA (1024 x 768) LCD Panel
- Intel® Core ™2 Duo processor up to 2.16 GHz
- System memory up to 4 GB (DDR2 200pin SODIMM socket x 2)
- Removable Hard Disc Drive (SATA interface)
- 1 x PCI slot or 1 x PCIe slot (Both optional)
- One Mini PCI slot, Type II CF card x1; IDE interface (Master)
- Built-in CF card interface (IDE interface for OS booting)
- Two Gigabit Ethernet ports
- Fanless model is available. (PPC-125T-BARE-FTE,built-in Intel Celeron® M 1.06 GHz) (DC power mode equipped with a external AC adapter)
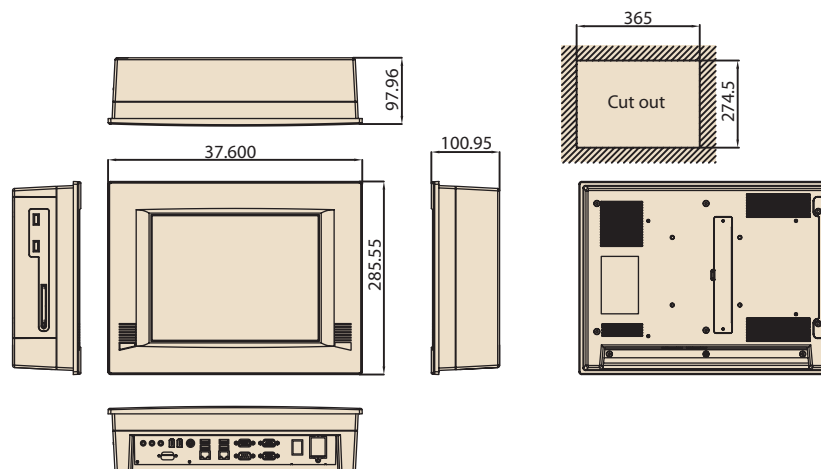- COM2 supports Auto-flow control

Introduction

The PPC-125T is an Intel Core 2 Duo based Panel PC with 12.1" color TFT LCD. It features multimedia devices, various connectors, and can be installed in virtually any application. In addition, its user-friendly interface makes it a great host for information appliances. Four serial COM2 supports Auto-flow control PPC-125T advanced networking capabilities, and provide a great solution for versatile applications.

Specifications

Processor System	CPU	Supports mSocket 478 based Core 2 Duo up to 2.16 GHz
	CPU FSB	533/667 MHz
	Chipset	945GME + ICH7M
	Disk Drive Housing	Room for 1 x 2.5" SATA HDD
	Dimensions (W x H x D)	376 x 285.55 x 100.95 mm (14.80" x 11.24" x 3.97")
	Front Panel Protection	IP65/NEMA 4 compliant (not for SAW model)
	Weight	5.6kg(12.33 lb)
	HDD	SATA HDD interface (2.5" HDD bay)
	DVD+/-RW Drive	Optional external module with SATA DVD-RW Drive
	Combo Drive	Optional external module with SATA Combo Drive
	Memory	Supports up to 4 GB DDR2 SDRAM 200pin SODIMM socket x 2
	Network (LAN)	2 x Gigabit Ethernet ports, support both wake on LAN and boot from LAN functions.
	I/O Ports	- 4 x COM ports: 3 x RS-232, 1 x RS-232/422/485 - 6 x USB 2.0 ports - 1 x PS/2 mouse and keyboard interface - MIC in / Line in / Line out port, 1 W speakers - 2 x Gigabit Ethernet ports - 1 x D-SUB VGA port
	Bus Expansion	PCI riser card & PCIe riser card are available as options, 1 x Mini PCI socket
Environmental Specifications	Operating Temperature	0 ~ 50° C (32 ~ 122° F)
	Relative Humidity	10 ~ 95% @ 40° C non-condensing
	Shock	10 G peak acceleration (11 msec. duration)
	EMC	BSMI, CE, FCC Class B, CCC
	Safety	CB, CE, UL

Power Supply

Power Supply	**AC Model**	Output Rating	150 W (max.)
		Input Voltage	100 ~ 240 V_{AC}, 50 ~ 60 Hz, 2 ~ 4 A
		Output Voltage	+3.3 V @ 4.5 A, +5 V @ 8.5 A, +12 V @ 7.0 A, +5 Vsb @ 1.5 A, -12 V @ 0.3 A
	DC Model	Output Rating	100 W (max.)
		Input Voltage	16 ~ 32 V_{DC} (Only for PPC-125T-BARE-FTE)
		Output Voltage	+3.3 V @ 5 A, +5 V_{DC} @ 8 A, +12 V_{DC} @ 5 A, +5 Vsb @ 1, -12 V @ 0.1 A -12 V @ 0.1 A

LCD Display

LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	12.1"
	Max. Resolution	1024 x 768
	Max. Colors or Grayscales	262 K
	Pixel Pitch (mm)	0.240 x 0.240
	Luminance (cd/m2)	450
	Contrast Ratio	700 : 1
	Viewing Angle	80° (left), 80° (right), 80° (up), 80° (down)
	Operating Temperature	-30 ~ +70° C
	LCD MTBF	50,000 hrs
Touchscreen (optional)	Type	5-wire Analog Resistive (USB interface)

Dimensions

Unit: mm

97.96

365

Cut out

274.5

37.600

100.95

285.55

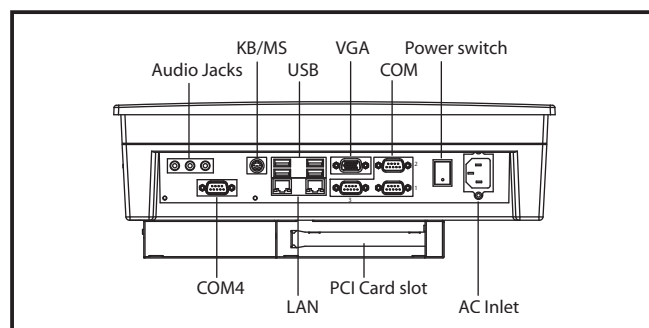## Ordering Information

Part No.	Description
PPC-125T-BAREE	12.1" Core 2 Duo Panel PC without T/S
PPC-125T-BARE-TE	12.1" Core 2 Duo Panel PC with Resi. T/S
PPC-125T-BARE-FTE	12.1" Fanless Resi.T/S Panel PC with embedded Intel® Celeron® M 1.06 GHz CPU (DC power mode equipped with Adapter)
PPC-125-STANDE	Stand kit for PPC-125 series
PPC-174 WL-MT	Wall mount kit for PPC series
PPC-ARM-A03	PPC ARM VESA Standard
989K012500E	PCI-e riser card with rear add-on box with 1 x Slim SATA ODD bay
989K012501E	Combo Drive Module for PPC-125 with 1 x PCI-e slot
989K012502E	DVD-RW Drive Module for PPC-125 with 1 x PCI-e slot
989K012503E	PCI riser card with rear add-on box with 1 x Slim SATA ODD bay
1702002605	POWER CABLE 90D 220V EUROPEAN 250V/6A 1.8M
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M

Fully-Integrated I/O

Audio Jacks
KB/MS
USB
VGA
COM
Power switch

COM4
LAN
PCI Card slot
AC Inlet

Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-125T complies with the IP65/NEMA 4 protection standard. Furthermore, the watchdog timer and power management features make the system secure and stable. The onboard hardware monitoring feature provides an automatic protection function, which prevents the CPU from becoming overheated.

Expansion

To extend functionality, the PPC-125T is designed with either one expansion slot for PCI card or PCIe card and six USB 2.0 (Univeral Serial Bus) ports. With these expansion capabilities, the PPC-125T not only functions as an HMI, but also as a computing center on which to build your applications.

Easy Maintenance

Maintaining and replacing the LCD and touchscreen are made easier through the PPC-125T 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, SAW (Surface Acoustic Wave). Flexible options for the PPC-125T offer a more user-friendly interface for diverse environments.