PPC-125T

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

Features

- 12.1" TFT SVGA (800 x 600) LCD; [XGA (1024 x 768) is optional]
- 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)
- Either One PCI slot or one PCIe slot is 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)

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 ports and two Gigabit Ethernet ports give the PPC-125T advanced networking capabilities, and provide a great solution for versatile applications.
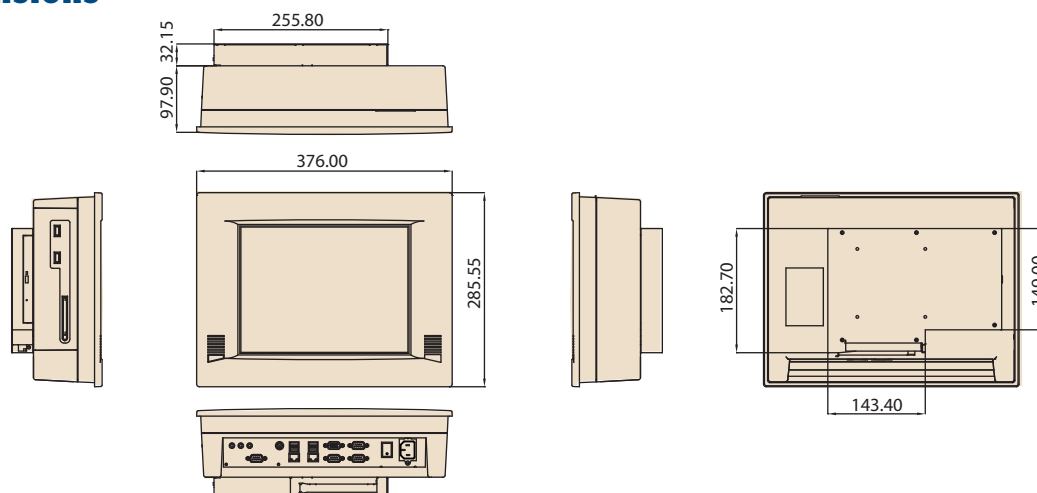
Specifications

Processor System	CPU	Supports Socket 478 based Core 2 Duo up to 2.16 GHz	
	Disk Drive Housing	Room for 1 x 2.5" SATA HDD	
	Dimensions (W x H x D)	376 x 285.55 x 98.16 mm (14.80" x 11.24" x 3.86")	
	Front Panel Protection	IP65/NEMA 4 compliant (not for SAW model)	
	HDD	SATA HDD interface (2.5" HDD bay)	
	DVD+/-RW Drive	Optional 8X or above	
	Combo Drive	Optional SATA DVD/CD-RW 8D/24W/24E/24R or above	
	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	Either 1 x PCI slot or 1 x PCIe slot (Optional)	
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 — 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	
Power Supply — DC Model	Output Rating	100 W (max.)	
	Input Voltage	16 ~ 32 V_{DC}	
	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	Display Type	Color TFT LCD	Color TFT LCD
	Size (Diagonal)	12.1"	12.1"
	Max. Resolution	800 x 600	1024 x 768*
	Max. Colors or Grayscales	262 K	262 K
	Pixel Pitch (mm)	0.3075 x 0.3075	0.240 x 0.240
	Luminance (cd/m²)	450	450
	Contrast Ratio	1000: 1	700 : 1
	Viewing Angle	80° (left), 80° (right), 80° (up), 80° (down)	80° (left), 80° (right), 80° (up), 80° (down)
	Operating Temperature	-30 ~ +70° C	-30 ~ +70° C
	LCD MTBF	50,000 hrs	50,000 hrs

* Note: 12.1" XGA (1024 x 768 is available for customerization)

Dimensions

Unit: mm (inch)

255.80
32.15
97.90
376.00
285.55
182.70
149.00
143.40

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
PPC-120 STAND	Stand kit for PPC-154/123/125 series
PPC-120 SWINARM	Swingarm kit for PPC-123/125 series
PPC-120 WL-MT	Wall mount kit for PPC-154/123/125 series
PPC-ARM-A03	PPC ARM VESA Standard
1700001947	Power cable 2P 180cm, USA (For Fanless DC model)
1700001948	Power cable 2P 180cm, Europe (For Fanless DC model)
989K012500E	Optical Disc Drive Brackets for PPC-125, w/o ODD
989K012501E	Combo Drive Module for PPC-125
989K012502E	DVD-RW Drive Module for PPC-125
989K007400E	Riser Card for PPC-125T (PCIe slot)
989K007500E	Riser Card for PPC-125T (PCI slot)
1702002605	POWER CABLE 90D 220V EUROPEAN 250V/6A 1.8M
1702002600	Power Cable UL/CSA (USA) 180D 125V10A 1.83M (For AC model)

Fully-Integrated I/O

KB/MS   VGA   Power switch
Audio Jacks   USB   COM

COM4   PCI Card slot   AC Inlet
LAN

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.

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