PPC-177T

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

Features

- Intel® Core™2 Duo processor up to 2.16 GHz
- System memory up to 4 GB 667 MHz DDR2 SODIMM socket x 2
- One PCI-e Expansion Slot (PCI is available as an option)
- One Mini PCI socket, One Mini PCI-e socket
- Built-in CF card interface (IDE interface for OS booting)
- Dual Gigabit Ethernet ports supports LAN teaming
- One RS-232/ GPIO (8 channels, TTL level); (by swapping pin header)
- One RS-232/422/485; (supporting Auto-flow control, selecting by BIOS)
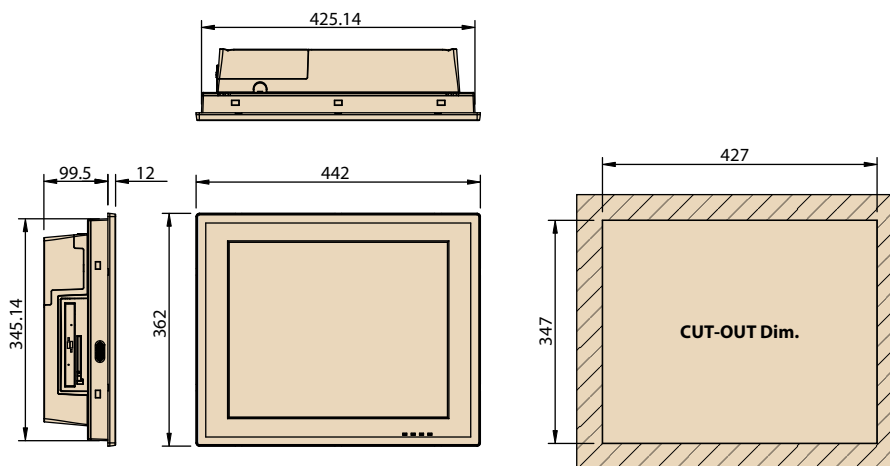
Introduction

The PPC-177T is an Intel® Core 2 Duo based Panel PC with 17" 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-177T 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)	442 x 362 x 111.5mm (17.4" x 14.25" x 4.39")
	Weight	7.6 kg (16.74 lb)
	Front Panel Protection	IP65 compliant
	HDD	SATA HDD interface (2.5" HDD bay)
	DVD+/-RW Drive	Optional SATA 8X or above DVD+/-RW Drive, Optional optical drive bay
	Memory	Supports up to 4 GB of 667 MHz DDR2 SODIMM system memory (socket x 2)
	Network (LAN)	2 x Gigabit Ethernet ports, Wake on LAN, boot from LAN and LAN teaming supported
	I/O Ports	- 4 x COM ports: 2 x RS-232, 1 x RS-232/422/485, 1 x RS-232/ GPIO (8 channels, TTL level)* - 2 x Gigabit Ethernet ports - 4 x USB 2.0 ports - 1 x D-SUB VGA port - Mic in/ Line out / Line in, 1W speaker - 1 x PS/2 mouse and keyboard interface - 2 x IEEE 1394 ports (optional) * RS-232/422/485 - selecting by BIOS and supporting Auto-flow control RS-232/GPIO - by swapping pin header
	Bus Expansion	1 x PCI-e Expansion Slot (PCI is available as option), 1 x Mini PCI socket, 1 x Mini PCI-e 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 — 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
LCD Display	Display Type	Color TFT LCD
	Size (Diagonal)	17"
	Max. Resolution	1280 x 1024
	Max. Colors or Grayscales	16.7M
	Pixel Pitch (mm)	0.264 x 0.264
	Luminance (cd/m²)	300
	Contrast Ratio	800:1
	Viewing Angle	80° (left), 80° (right), 80° (up), 80° (down)
	Operating Temperature	0 ~ +50° C
	LCD MTBF	50,000 hrs
Touchscreen (optional)	Type	5-wire Analog Resistive (USB interface)

ADVANTECH Industrial Panel Computers

Dimensions

Unit: mm

425.14

99.5 12 442

345.14 362

427

347

CUT-OUT Dim.

Ordering Information

Part No.	Description
PPC-177T-BAREE	17" Core 2 Duo Based Panel PC without T/S
PPC-177T-BARE-TE	17" Core 2 Duo Based Panel PC with Resistive T/S
PPC-155T STAND	Stand kit for PPC-155/157/175/177 series
PPC-ARM-A03	PPC ARM VESA Standard
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-175 RACK-MT	Rack mount kit for PPC-175/177 series
1702002605	Power cord 90D 220V EUROPEAN 250V/6A, 1.8M
1702002600	Power cord UL/CSA (USA) 180D 125V/10A 1.83M
989K017700E	Optical disc drive kit for PPC-177T (W/O ODD)
989K017702E	DVD-RW (SATA) module for PPC-177T
989K070601E	PCI riser card for PPC-177T
989KP15503E	Purchase 802.11a/b/g Mini-PCI Wireless Module for PPC-157/177

I/O Appearance

A I B C D E F

G H I

A: Line in/Line out/Mic in
B: PS2 Mouse & Keyboard
C: USB 2.0 x 4
D: VGA Port
E: Power Switch

F: AC Inlet
G: PCI Slot x 1
H: 10/100/1000 Base-T Ethernet x 2
I: RS-232 x 3, RS-232/422/485 x 1

Feature Details

Protection

To meet the requirements of a public environment, the front panel PPC-177T complies with the IP65 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.
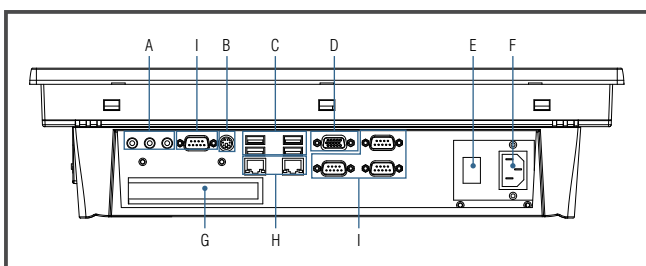
Expansion

To extend functionality, the PPC-177T is designed with one PCI-e expansion Slot (PCI is available as option) and Four USB 2.0 (Univeral Serial Bus) ports. With these expansion capabilities, the PPC-177T 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-177T 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 entire system.