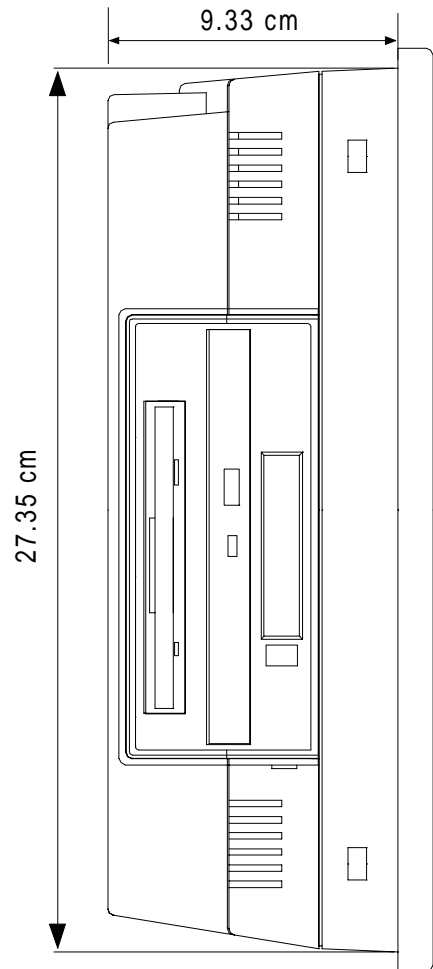


PPC-140/120 *Panel PC with 13.8" and 12.1" Color TFT/DSTN Display*



Introduction

The PPC-140T and PPC-120T Intel Pentium® MMX industrial panel PCs are human-machine interfaces (HMIs). Equipped with a 13.8" or 12.1" TFT LCD, the PPC-140T and PPC-120T are ideal monitoring devices and interfaces in information applications because of their outstanding multi-function features.

Multimedia Function

The PPC-140T and PPC-120T have two front-panel speakers for Sound Blaster-compatible audio functions. Moreover, the audio function (Mic-in/Speaker-out/Line-in), CD-ROM, and game port make the PPC-140T and PPC-120T full-function hosts for multimedia applications.

Protection Function

To meet public environmental requirements, the PPC-140T and PPC-120T comply with IP 65/NEMA 4 protection standards. In addition, the watchdog timer and power management features make the system secure and stable.

Networking Function

Four serial ports and a 100/10BaseT Ethernet controller give the PPC-140T and PPC-120T advanced networking capabilities and also provide the best solution for a variety of applications.

Expansion Function

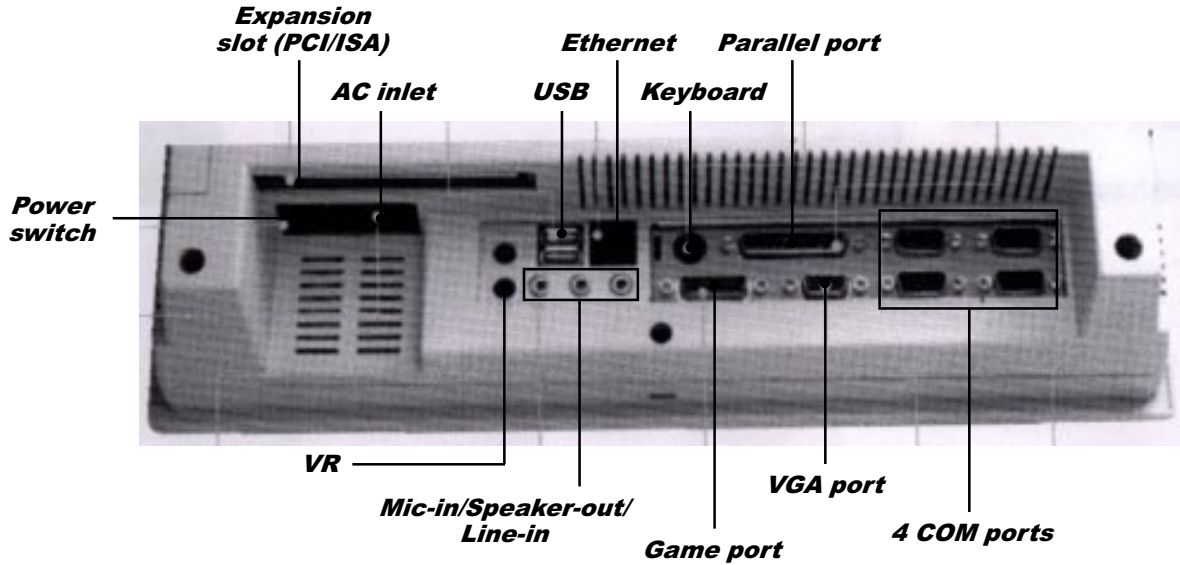
To extend functionality, the PPC-140T and PPC-120T are designed with one expansion slot for PCI/ISA cards, one USB (Universal Serial Bus) port, and one PCMCIA card bus (Type II x 2, Type III x 1). With these expansion capabilities, the PPC-140T and PPC-120T can function not only as HMIs, but also as computing centers around which to build your application.

Data Transmission

The wireless infrared function (IrDA) provides convenient data transmission in field applications.



Fully integrated I/O for distributed applications



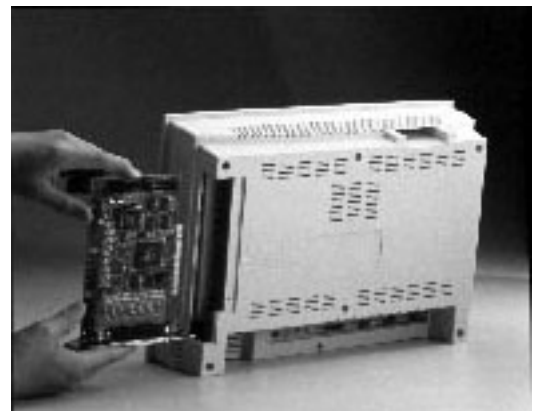
The PPC-140T: Panel PC with 13.8" TFT LCD display



The PPC-120T: Panel PC with 12.1" TFT LCD display



The PPC-140/120's side-mounted FDD, PCMCIA and CD-ROM drives



The PPC-140/120's PCI/ISA expansion slot

Specifications

- **Construction:** Inside: Heavy duty steel
Outside: Fire-resistant plastic
- **Cooling system:** One 16 CFM (flow-in) fan on rear panel
- **Disk drive housing:** Space for one 2.5" HDD
- **Dimensions (W x H x D):** 375 x 285 x 93.3 mm
(14.8" x 11.2" x 3.7")
- **Weight:** 5.2 kg (11.4 lb)
- **Front panel protection:** IP65 compliant
- **CPU:** Supports up to Intel Pentium® MMX 233 MHz
- **HDD:** IDE HDD interface (2.5" HDD bay)
- **CD-ROM drive:** Compact 24X or above
- **Memory:** Supports up to 128 MB SDRAM (168-pin)
- **FDD:** Supports 720 KB / 1.44 MB FDD
- **Network (LAN):** Novell NE2000 compatible,
100/10Base-T interface
- **I/O ports:**
 - 4 serial ports: three RS-232, one RS-232/422/485
 - 1 parallel port
 - PCMCIA Type II x 2, Type III x 1
 - 1 PS/2 mouse and keyboard interface
 - Mic-in, Speaker-out, Line-in, and Game ports
- **Bus expansion:** One expansion slot for half-size
PCI/ISA card

LCD Displays

Model	PPC-140S	PPC-140T	PPC-120T
Display type	Color DSTN	Color TFT	Color TFT
Size (diagonal)	13.8"	13.8"	12.1"
Max. resolution	1024 x 768	1024 x 768	800 x 600
Max. colors or greyscales	256 K	256 K	256 K
Dot size (mm)	0.33 x 0.33	0.33 x 0.33	0.33 x 0.33
Luminance (cd/m²)	200	250	250
Viewing angle	90°	120°	120°
Temperature	0 ~ 40° C	0 ~ 50° C	0 ~ 50° C
VR controls	brightness/contrast	brightness	brightness
Simultaneous mode	Yes	Yes	Yes
LCD MTBF	50,000 hours	50,000 hours	50,000 hours

Power Supply

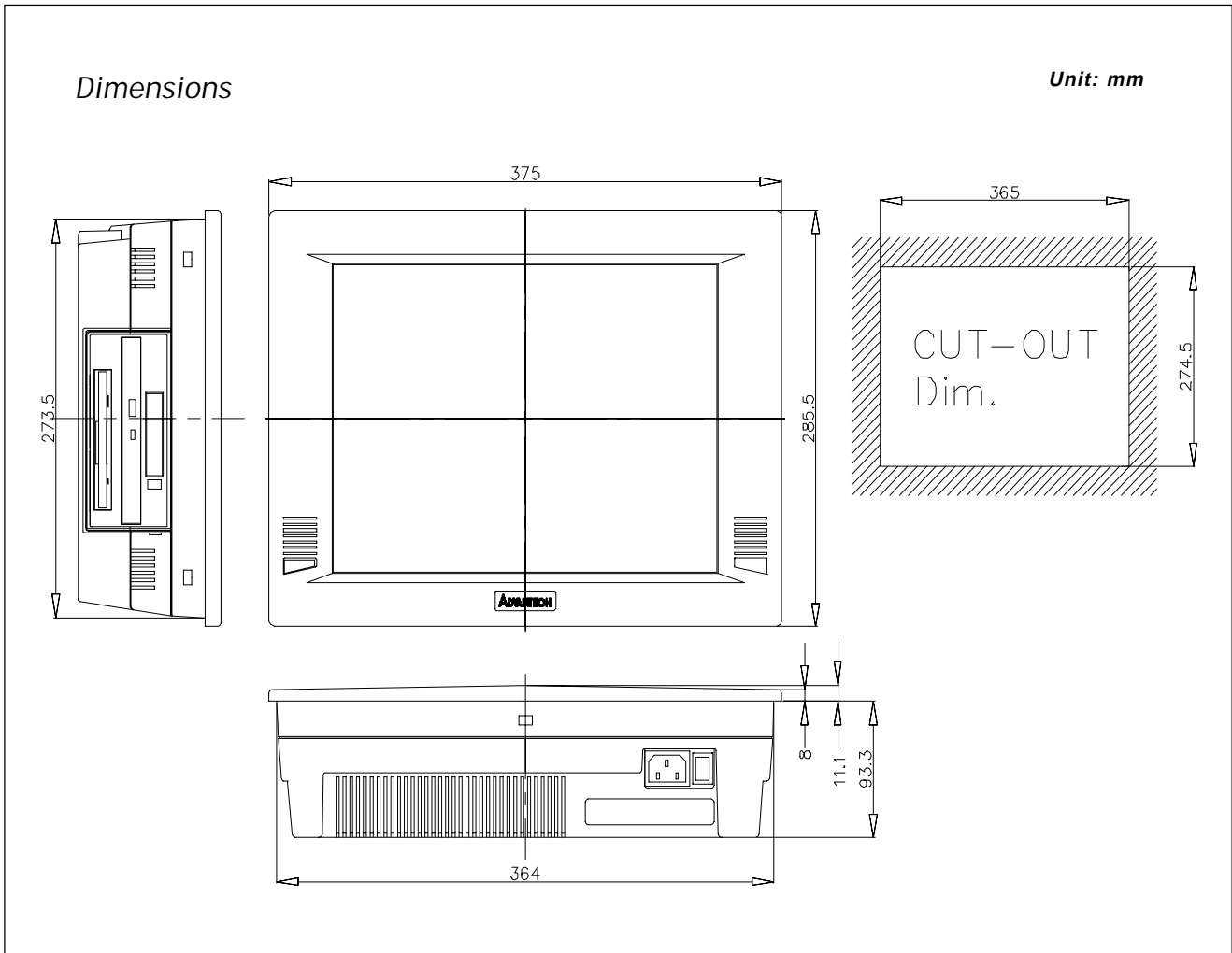
- **Output rating:** 80 W (max.)
- **Input voltage:** 115 ~ 230 V_{AC} @ 47 ~ 63 Hz
- **Output voltage:** +5 V @ 12 A, +12 V @ 1 A
- **MTBF:** 50,000 hrs
- **Safety:** Meets UL, CSA, CE
- **EMI:** Meets FCC/CE Class A

Environmental

- **Operating temperature:**
0 ~ 45° C (32 ~ 113° F) for TFT model
0 ~ 40° C (32 ~ 104° F) for DSTN model
- **Relative humidity:** 10 ~ 95% @ 40° C, non-condensing
- **Shock:** 10 G peak acceleration (11 msec. duration)
- **Safety:** Meets UL/CSA/CE
- **EMI/EMC:** Meets FCC/CE/CNS Class A
- **CE, FCC compliant**

Touchscreen (Optional)

- **Type:** Analog resistive
- **Resolution:** Continuous
- **Light transmission:** 75%
- **Controller:** RS-232 interface
- **Power consumption:** +5 V @ 200 mA
- **Software driver:** Supports both DOS and Windows
- **Lifetime:** 30 million touches



Ordering Information

- PPC-140T/BARE**
Panel PC with 13.8" TFT LCD display
(resolution: 1024 x 768)
- PPC-140S/BARE**
Panel PC with 13.8" DSTN LCD display
(resolution: 1024 x 768)
- PPC-120T/BARE**
Panel PC with 12.1" TFT LCD display
(resolution: 800 x 600)
- PPC-120S/BARE**
Panel PC with 12.1" DSTN LCD display
(resolution: 800 x 600)

Optional Modules

- Option-100-200MMX/32M/2.1G**
Integrated with Pentium® 166 MMX CPU, 32 MB DRAM
and 2.5" 2.1 GB HDD
- Option-100-200MMX/64M/2.1G**
Integrated with Pentium® 200 MMX CPU, 64 MB DRAM
and 2.5" 2.1 GB HDD
- Option-112-12.1" T/S**
Integrated with 12.1" touchscreen
- Option-112-13.8" T/S**
Integrated with 13.8" touchscreen

* If you want to customize any optional module, call our sales representatives or distributors for more information.