TPC-650

Features

- 6.4" VGA TFT LCD or 5.7" QVGA STN LCD
- Resistive touchscreen
- One 16-bit PC/104 expansion slot
- Optional CompactFlash™ storage and Windows CE 3.0
- Intel® Pentium®-166 MMX CPU and 32 MB DRAM (up to 128 MB per request) as powerful kernel for industrial applications
- NEMA4/IP65 compliant front bezel

Introduction

The TPC-650 is a platform suitable for industrial automation applications. The integration of a fanless kernel, touchscreen and non-volatile storage makes this machine a reliable solution for industrial or critical environments. The 16-bit PC/104 expansion slot provides a dependable and convenient way to add-on functions. Common PC/104 cards for a variety of applications can fit in the TPC-650. High-speed Ethernet as well as RS-232/422/485 serial ports provide seamless communication ability for users. Together with optional Windows® CE from Advantech, the TPC-650 creates opportunities for automation through the internet.

Specifications

- **Construction** Plastic molding with optional metal PC/104 expansion cover
- **Display** 6.4" VGA TFT LCD/5.7" QVGA STN LCD
- **CPU** Intel® Pentium® 166 MMX
- **VGA** CHIPS 69000 VGA controller
- **DRAM** 32 MB SO-DIMM SDRAM (up to 128 MB)
- **Storage** One type-II CompactFlash™ socket
- **I/O** 2 serial ports (one configurable to RS-422/485), 1 parallel port, 1 Ethernet port (10/100Base-T), 1 PS/2 port
- **Expansion** One 16-bit PC/104 slot
- **Watchdog Timer** Programmable, 1 ~ 62 seconds
- **Power Input** 24 V_{DC}, 1 A
- **Dimensions (W x H x D)** 220 x 160 x 57 mm (8.66" x 6.30" x 2.24")
- **Weight** 1.7 kg (3.7 lbs)

LCD Display

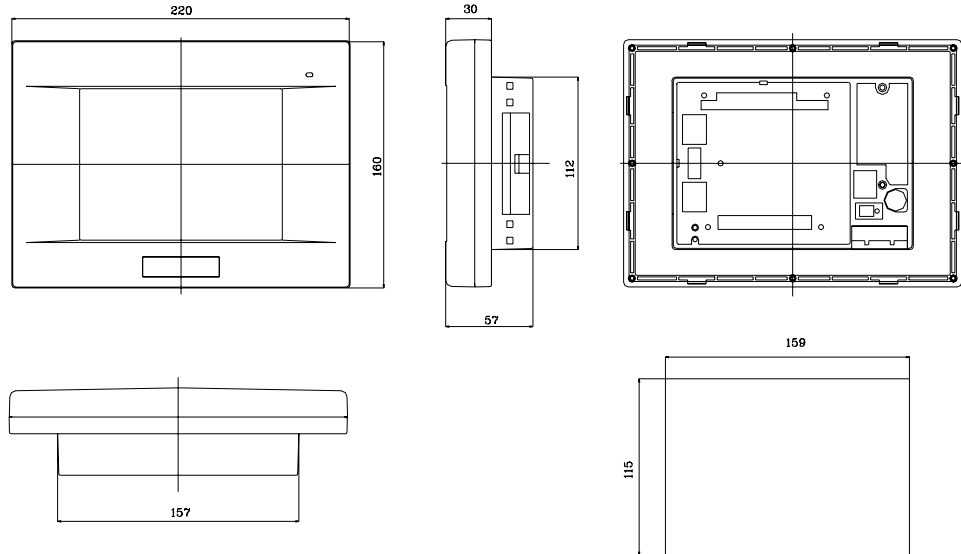|	TPC-650TE	TPC-650T	TPC-650S
Display Type	TFT	TFT	STN
Display Size (diagonal)	6.4"	6.4"	5.7"
Max. Colors	256 K	256 K	256 K
Dot Pitch (HxV)	0.0675x0.203mm	0.0675x0.0203mm	0.12 x 0.36 mm
Pixel Pitch (HxV)	0.203 x 0.203 mm	0.203 x 0.203 mm	0.36 x 0.36 mm
Viewing Angle	90°	110°	100°
Luminance	150 cd/m²	300 cd/m²	110 cd/m²
Storage Temperature	-20 ~ 70° C (-4 ~ 158° F)	-25 ~ 70° C (-13 ~ 158° F)	-20 ~ 60° C (-4 ~ 140° F)
Operating Temperature	0 ~ 60° C (32 ~ 140° F)	0 ~ 55° C (32 ~ 131° F)	0 ~ 50° C (32 ~ 122° F)
Backlight	1 CCFL	2 CCFL	1 CCFL
Contrast Ratio	180	120	25

Touchscreen

- **Type** 4-wire, analog resistive
- **Resolution** Continuous
- **Light Transmission** Above 75%
- **Life** 1 million activation minimum at single point
- **Controller** PS/2 interface
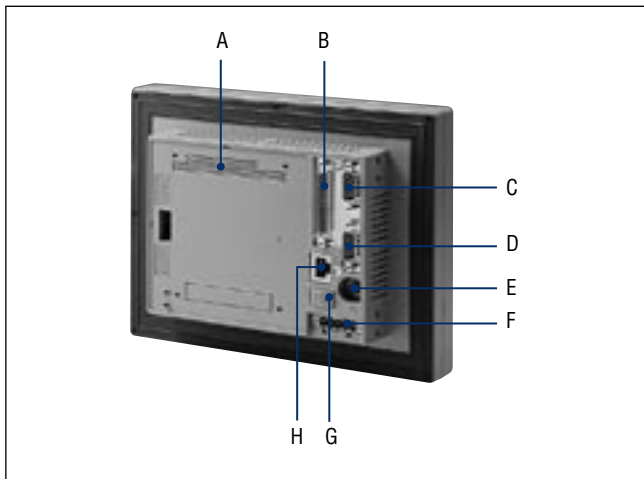
Ordering Information

- **TPC-650TE** 6.4" commercial grade TFT LCD display touch panel computer with Pentium® 166 MMX CPU and 32 MB DRAM
- **TPC-650T** 6.4" TFT LCD display touch panel computer with Pentium® 166 MMX CPU and 32 MB DRAM
- **TPC-650T-CE** TPC-650T with Windows CE 3.0 OS on a 32 MB CompactFlash™ memory card
- **TPC-650S** 5.7" STN LCD display touch panel computer with Pentium® 166 MMX CPU and 32 MB DRAM
- **TPC-650S-CE** TPC-650S with Windows CE 3.0 OS on a 32 MB CompactFlash™ memory card
- **PS-DC24-50** 50 watts 24 V_{DC} subscript the DC output, 110/220 V_{AC} 50/60 Hz input power adapter
- **PPC-EXP-57** Protective kit for PC/104 expansion cards
- **TPC-ADP-650** Antivibration kit for TPC-650 using a 2.5" IDE HDD through the CompactFlash interface

Dimensions

Rear View

A. PC/104 slot   E. PS/2
B. Parallel port   F. Power connector
C. COM1   G. Power switch
D. COM2   H. LAN port

1 IPPC & AWS
2 TPC
3 FPM
4 ATM
5 DA&C
6 cPCI
7 ADAM-3000
8 eConnectivity
9 ICOM
10 Software
11 UNO-2000/3000
12 VBOX
13 ADAM-4000
14 ADAM-5000
15 ADAM-6000
16 ADAM-8000