

TPC-650

Pentium MMX touch panel computer
with 6.4" VGA TFT/5.7" QVGA STN display



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®-266 MMX CPU and 32MB DRAM as powerful kernel for industrial applications
- NEMA4 / IP65 compliant front bezel

Introduction

The TPC-650 is a well-designed platform suitable for industrial automation applications. The integration of a fan-less kernel, touchscreen and non-volatile storage make this machine a reliable solution for industrial or critical environments. The 16-bit PC/104 expansion slot provides a rugged way to add-on functions. The most 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 build seamless communication ability for users. Together with the 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® 266 MMX
- **VGA:** CHIPS 69000 VGA controller
- **DRAM:** 32 MB SO-DIMM SDRAM
- **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}, 2.2A maximal
- **Dimension (W x H x D):** 220 X 160 X 57 (8.66" X 6.30" X 2.24")
- **Weight:** 1.7 kg (3.7 lbs)

LCD Specifications

	TPC-650T	TPC-650S
Display type	TFT	STN
Display size (diagonal)	6.4"	5.7"
Max colors	256k	256
Resolution	640×480 (VGA)	320×240 (QVGA)
Dot pitch (H×V, mm)	0.0675 ×0.203	0.12 ×0.36
Pixel pitch (H×V, mm)	0.203×0.203	0.36 ×0.36
Viewing angle (°)	110	100
Luminance (cd/m²)	300	110
Storage temperature(°C)	-25~70	-20~60
Operating temperature(°C)	0~55	0~50
Backlight	2 CCFL	1 CCFL
Contrast ratio	120	25

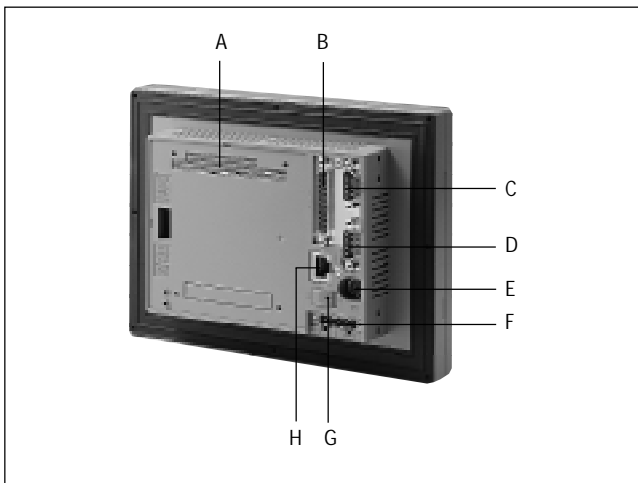
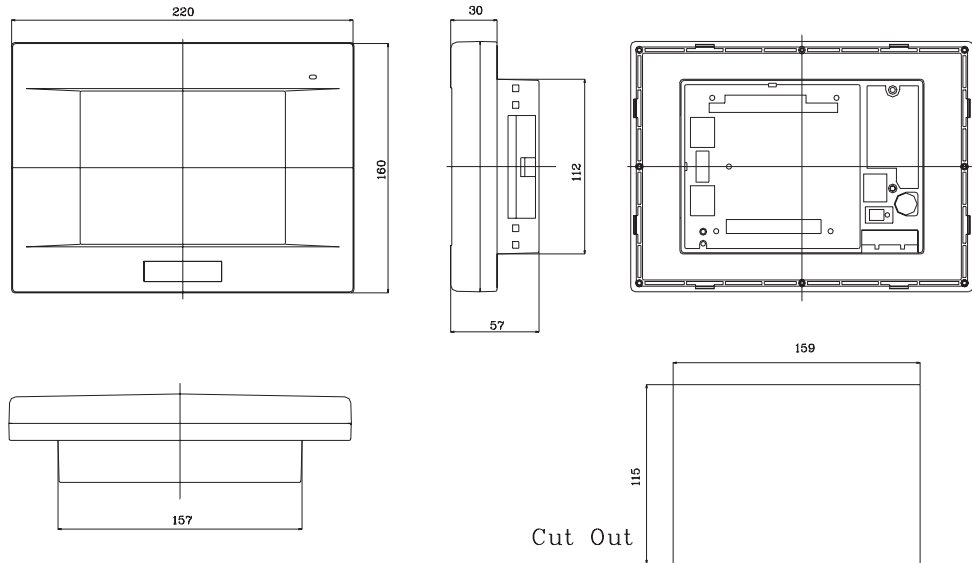
Touchscreen

- **Type:** 4-wire, analog resistive
- **Resolution:** continuous
- **Light transmission:** above 68%
- **Life:** 1 million activation minimal
- **Controller:** PS/2 interface



Dimensions

Unit: mm



- A. PC/104 Slot
- B. Parallel Port
- C. COM1
- D. COM2
- E. PS/2
- F. Power Connector
- G. Power Switch
- H. LAN Port

Ordering Information

- TPC-650T**
6.4" TFT LCD display touch panel computer with Pentium®-266 MMX CPU and 32MB DRAM
- TPC-650T-CE**
TPC-650T with Windows CE 3.0 OS on a 32MB CompactFlash™ memory card
- TPC-650T-GNI+**
TPC-650T with Windows CE 3.0 and Advantech HMI software package on a 32MB CompactFlash™ memory card
- TPC-650S**
5.7" STN LCD display touch panel computer with Pentium®-266 MMX CPU and 32MB DRAM
- TPC-650S-CE**
TPC-650S with Windows CE 3.0 OS on a 32MB CompactFlash™ memory card
- TPC-650S-GNI+**
TPC-650S with Windows CE 3.0 and Advantech HMI software package on a 32MB CompactFlash™ memory card

Optional Peripherals

- PS-DC24-50**
110V_{AC} to 24V_{DC}, 50 watts power adapter
- PPC-EXP-57**
Protective kit for the PC/104 expansion cards