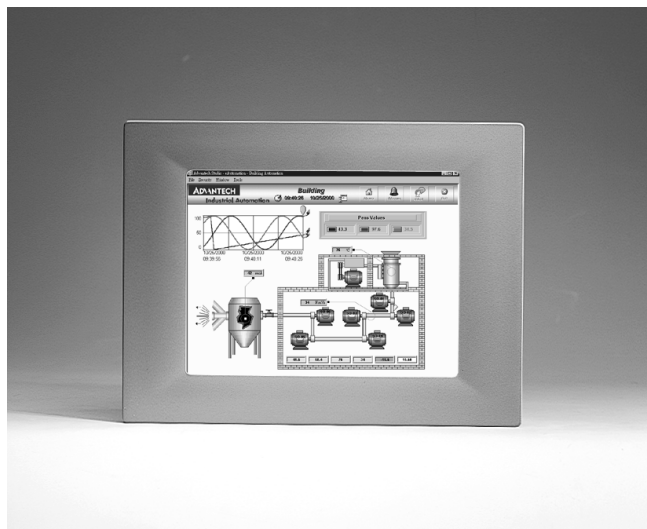


TPC-642

StrongARM Touch Panel Computer with 5.7" QVGA STN LCD Display



Features

- 5.7" QVGA color STN LCD
- Intel® StrongARM 1110 processor
- Fanless operation
- Built-in flash memory and Windows CE OS inside
- NEMA4/IP65 compliant Al-Mg front panel
- One CompactFlash™ slot

Introduction

The TPC-642 models are miniature and compact platforms that have no redundant functions. They are designed for small-sized operator interface market. They have 5.7" STN LCD display which is a good cost effective choice for limited budget. Its RISC kernel, the Intel StrongARM 1110 processor, is of low power consumption without sacrificing performance. The TPC-642 has 10Base-T Ethernet port offering good communication ability. The TPC-642 is bundled with Windows CE OS. The built-in Windows CE OS platform forms a bridge that lets TPC-642 be an open HMI solution for system integration.

Specifications

- **Construction:** plastic molding housing
- **Display:** 5.7" QVGA color STN/FSTN LCD
- **CPU and Core Logic:** Intel® StrongARM 1110, 206 MHz
- **VGA:** controlled by CPU
- **DRAM:** 32 MB on board
- **Storage:** 16 MB flash memory on board, 1 CompactFlash™ card (optional)
- **I/O:** 2 serial ports (one RS-232, one RS-485), 1 Ethernet port (10Base-T), 2 PS/2 ports, 1 USB client port (TPC-642SE only)
- **Watchdog Timer:** programmable as 250ms, 500ms and 1 second
- **Power Input:** 24 V_{DC}, 0.5 A maximal
- **Dimension (W x H x D):** 195 x 148 x 40 mm (7.68" x 5.83" x 1.57")
- **Weight:** 0.8 kg (1.76 lbs)

LCD Display

	STN color LCD (TPC-642S)	FSTN color LCD (TPC-642SE)
Display size (diagonal)	5.7"	
Max. colors	256 K	256 K
Resolution	320 x 240	
Pixel pitch (HxV)	0.36 x 0.36 mm	
Viewing angle	100°	90°
Luminance	110 cd/m ²	165 cd/m ²
Storage temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 70° C (-4° ~ 158° F)
Operating temperature	0° ~ 50°C (32° ~ 122°F)	0° ~ 50°C (32° ~ 122°F)
Backlight	1 CCFL	
Contrast ratio	25	35

Touchscreen

- **Type:** 4-wire, analog resistive
- **Resolution:** continuous
- **Light Transmission:** above 75%
- **Life:** 100 thousand activation minimum
- **Controller:** embedded on board

Environmental Specifications

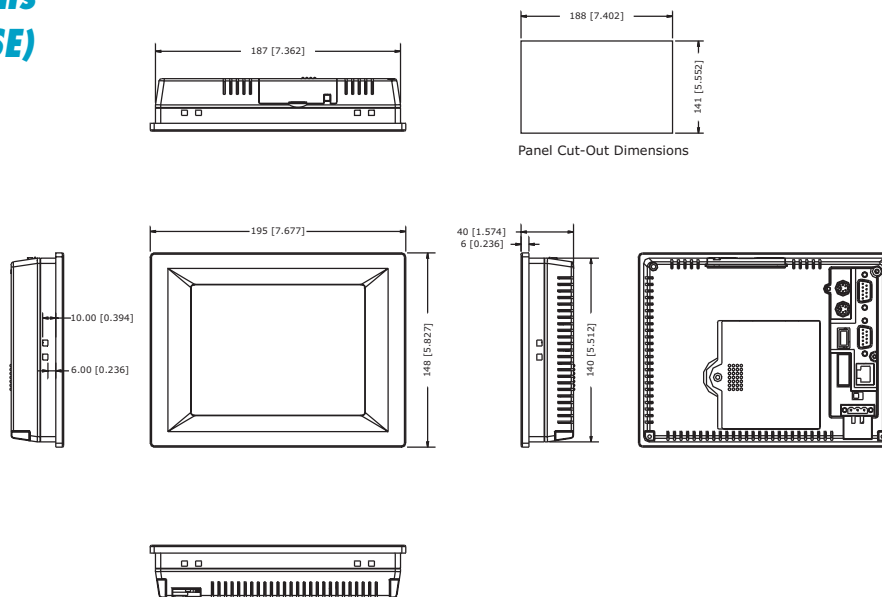
- **Operating Temperature:** 0° ~ 50° C (32° ~ 122° F)
- **Relative Humidity:** 10% ~ 95% @ 40° C, non-condensing
- **EMI:** FCC class B certificated
- **CE certificated**
- **Front panel meets NEMA4/IP65**



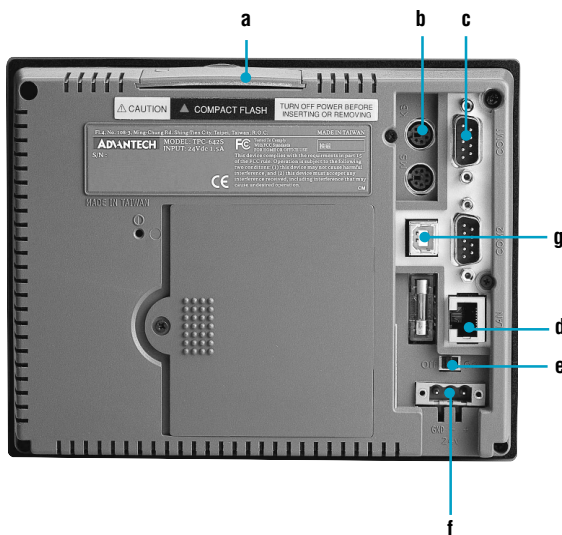
StrongARM Touch Panel Computer with 5.7" QVGA STN LCD Display

Dimensions (TPC-642SE)

Unit: mm



Rear View (TPC-642SE)



- a. CompactFlash™ slot
- b. PS/2 port
- c. Serial port
- d. Ethernet port (RJ-45)
- e. Power switch
- f. Power connector
- g. USB client

Ordering Information

- ☐ **TPC-642S-CE**
5.7" color STN LCD display touch panel computer with StrongARM 1110 CPU 32 MB DRAM/16 MB flash memory on board and Windows®CE 3.0 OS
- ☐ **TPC-642SE-CE**
5.7" color STN LCD display touch panel computer with StrongARM 1110 CPU 32 MB DRAM/16 MB flash memory on board and Windows®CE 3.0 OS
- ☐ **TPC-642S-LNX**
5.7" color STN LCD display touch panel computer with StrongARM 1110 CPU 32 MB DRAM/16 MB flash memory on board and Linux kernel OS
- ☐ **Thin-Client solution (MS RDP/Citrix ICA) by request**

Optional Peripherals

- ☐ **PS-DC24-50**
50 watts 24 V_{DC} output, 110/220 V_{AC} 50/60 Hz input power adapter