

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 compact platforms designed for the small-sized operator interface market, that have no redundant functions. They have 5.7" STN LCD display which is a cost effective choice for a limited budget. Its RISC kernel, the Intel StrongARM 1110 processor, consumes low power, but doesn't sacrifice performance. The TPC-642 has 10Base-T Ethernet port offering solid communication ability, and comes bundled with a Windows CE OS. The built-in Windows CE OS platform makes TPC-642 into an open HMI solution for system integration.

Specifications

- **Construction** Plastic molded 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** 3 serial ports (one full RS-232, one RS-485, one 4-pin RS-232/TPC-642SE only), 1 Ethernet port (10Base-T), 2 PS/2 ports, 1 USB client port (TPC-642SE only)
- **Watchdog Timer** Programmable as 250ms, 500ms or 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)

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**

LCD Display

| | STN color LCD (TPC-642S) | FSTN color LCD (TPC-642SE) |
|----------------------------------|-----------------------------|-------------------------------|
| ▪ Display Size (diagonal) | 5.7" | 5.7" |
| ▪ Max. Colors | 256 K | 256 K |
| ▪ Resolution | 320 x 240 | 320 x 240 |
| ▪ Pixel pitch (HxV, mm) | 0.36 x 0.36 mm | 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 | 1 CCFL |
| ▪ Contrast ratio | 25 | 35 |

Ordering Information

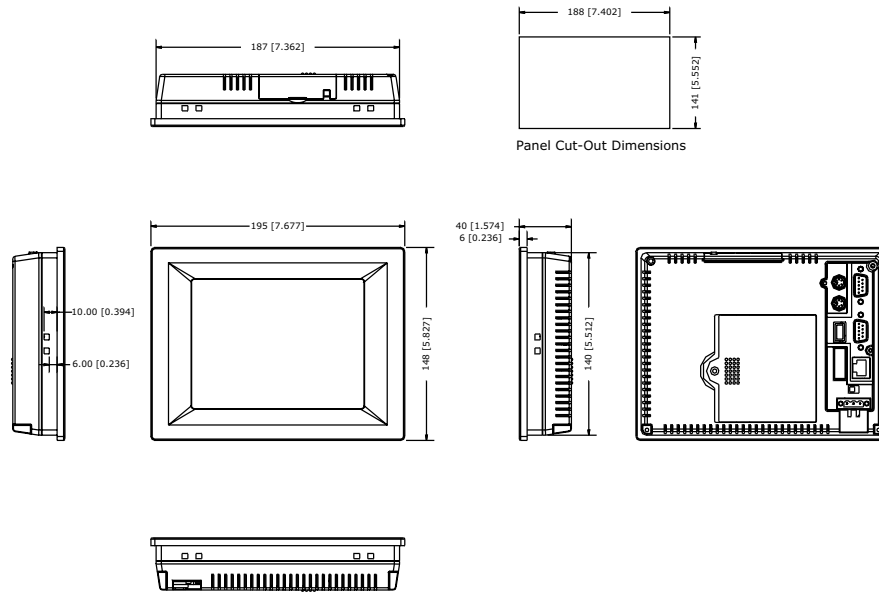
- **TPC-642S-CE** 5.7" color STN LCD display touch panel computer with StrongARM 1110 CPU 32 MB DRAM/16 MB flash memory on board and Windows® CE 3.0 OS
- **TPC-642SE-CE** 5.7" color STN LCD display touch panel computer with StrongARM 1110 CPU 32 MB DRAM/16 MB flash memory on board and Windows® CE 3.0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

Optional Peripherals

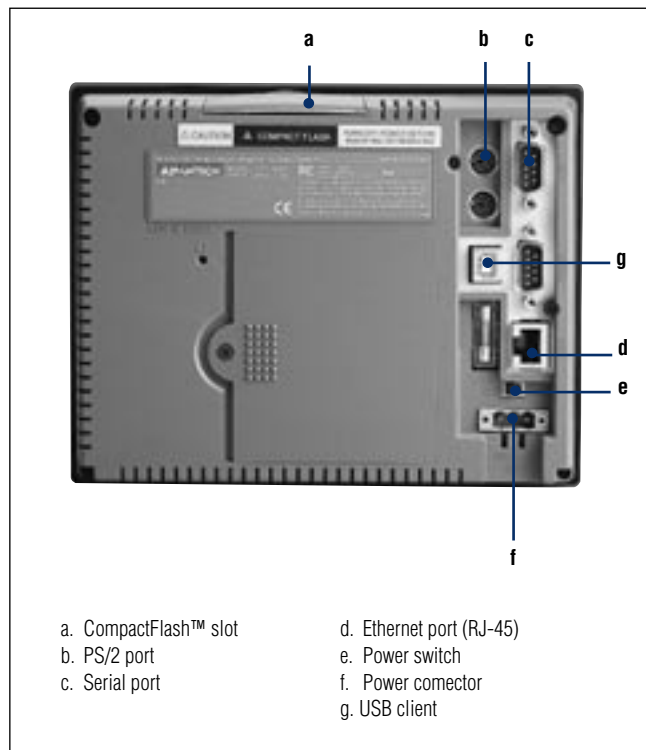
- **PS-DC24-50** 50 watts 24 V_{DC} output, 110/220 V_{AC} 50/60 Hz input power adapter

Dimensions

Unit: mm



Rear View (TPC-642SE)



- 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