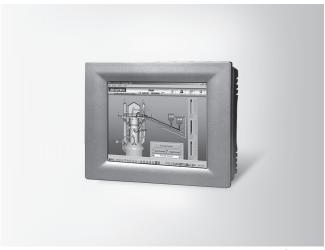
TPC-61T TPC-31T

5.7"/3.5" QVGA TFT LED LCD TI Cortex-A8 **Touch Panel Computer**



Features

- TI Cortex-A8 processor on board
- 3.5"/5.7" QVGA TFT LED LCD
- Super slim and compact design with plastic housing
- Fanless cooling system
- IP65 compliant front panel
- Built-in micro SD card with Windows® CE OS
- 1 x SD card slot
- Automatic data flow control RS-485
- Supports 1Mbit FRAM for data back-up



Introduction

The TPC-31T/61T model is a compact platform without redundant functions, and has been designed for small-sized operator interface applications. It has a 3.5"/5.7" TFT LCD display which is a cost effective choice for a limited budget. Its RISC kernel, the TI Cortex-A8 processor consumes minimum power without sacrificing performance. The TPC-31T/61T has a 10/100Base-T Ethernet port offering solid communication ability and comes bundled with a Windows® CE OS that supports Thin-Client solutions. The built-in Windows CE OS platform lets the TPC-31T/61T become an Open HMI solution for system integration.

Specifications

General

 Certification CE, BSMI, CCC, UL, FCC Class A

 Cooling System Fanless design

Dimensions (W x H x D) TPC-31T: 120.79 x 85.5 x 26.5 mm

(4.76" x 3.37" x 1.04")

TPC-61T: 195 x 148 x 44.4 mm (7.68" x 5.83" x 1.75")

Enclosure TPC-31T:ABS

TPC-61T: PC/ABS Resin

Mounting Panel

 OS Support Windows CE 6.0 Power Consumption 8 W/12 W (typical) Power Input $18 \sim 32 V_{DC}$

 Watchdog Timer Programmable as 250 ms, 500 ms, 1 second

- Weight (Net) 0.25 kg (0.55 lbs)/0.8 kg (1.76 lb)

System Hardware

CPU TI Cortex-A8 600MHz DDR2 256MB on board Memory 10/100Base-T x 1 - LAN

512MB on board micro SD card Storage

1 x SD Card slot

1Mbit FRAM for Data back-up

TPC-31T: RS-232/RS-485 X1 with auto data flow I/0

control, USB 2.0(Host) x 1, CAN x 1

TPC-61T: RS-232 x 2 (COM1,2) RS-422/RS-485 x 1

(COM 3) with auto data flow control, USB2.0 (Host) x 1, USB2.0 (Client) x 1

LCD Display

 Display Type QVGA TFT LED LCD Display Size 3.5"/5.7" Max. Resolution 320 x 240 Max. Colors 64 K

 Luminance cd/m² 450/800 Viewing Angle (H/V) 160/140

 Backlight Life 30,000/50,000 hrs Contrast Ratio 300:1/800:1

Touchscreen

Lifespan 1 million times with an 8mm diameter finger of silicone

rubber

Light Transmission Above 80%

Resolution Linearity

Type 4-wire, analog resistive

Environment

10 ~ 95% RH @ 40°C, non-condensing Humidity

 Ingress Protection Front panel: IP65 • Operating Temperature $0 \sim 50^{\circ}\text{C} (32 \sim 122^{\circ}\text{F})$ Storage Temperature -20 ~ 60°C (-4 ~ 140°F)

Vibration Protection 2 Grms (5 ~ 500 Hz) (Operating, random vibration)

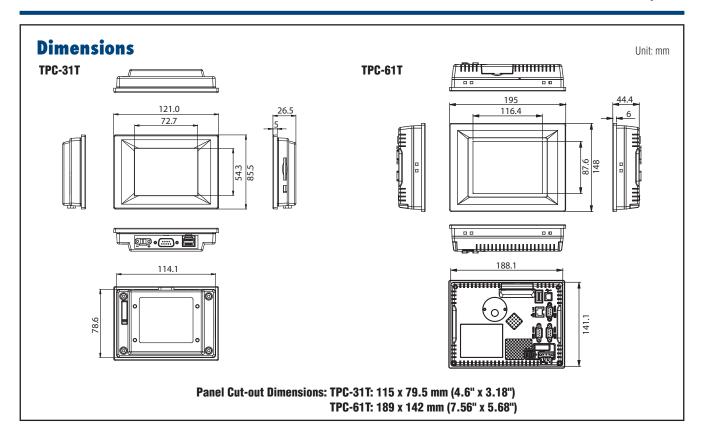
Ordering Information

■ TPC-31T-E3AE 3.5" QVGA Touch Panel PC. TI AM3517 600 MHz.

256 MB with WinCE 6.0

TPC-61T-E3AE 5.7" QVGA Touch Panel PC TI AM3517 600 MHz,

256 MB with WinCF 6.0



Optional Accessories

 PWR-247-CE 24 V 60 W AC-DC Power Adapter **1702002600** Power Cable US Plug 1.8 M **1702002605** Power Cable EU Plug 1.8 M Power Cable UK Plug 1.8 M **1702031801**

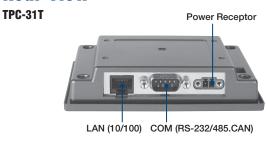
Power Cable China/Australia Plug 1.8 M **1700000596**

Application Software

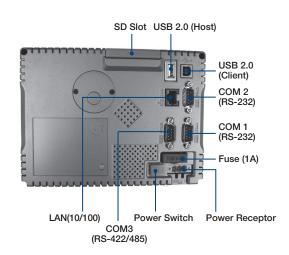
WebAccess/HMI

WebAccess/HMI is Human Machine Interface (HMI) software based on Microsoft's Windows operating system. It utilizes a PC's ample resources, ie speed, storage, multimedia, peripheral devices, and large screen to produce a complex human-machine interface. WebAccess/HM with its communication and monitoring ability supports more than 350 PLC communication protocols and a wide choice of screen design objects, to satisfy multiple integrations of factory automation and all-round human-machine interface operation and monitoring requirements.

Rear View



TPC-61T



Mouser Electronics

Authorized Distributor

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Advantech: TPC-31T-E3AE