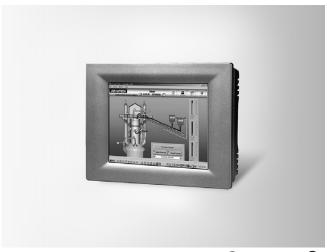
# TPC-31T TPC-61T

# 3.5"/5.7" 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
BSMI, CE, FCC Class A, UL

• 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 ~ 32 V<sub>DC</sub>

• 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
Memory DDR2 256MB on board
LAN 10/100Base-T x 1

• **Storage** 512MB on board micro SD card

1 x SD Card slot

1Mbit FRAM for Data back-up

■ **I/O** TPC-31T: RS-232/RS-485 X1 with auto data flow

control, USB 2.0(Host) 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
Display Size
Max. Resolution
Max. Colors
Luminance cd/m²
Viewing Angle (H/V)
Backlight Life
QVGA TFT LED LCD
3.5"/5.7"
64 K
450/800
760/140
30,000/50,000 hrs

• Contrast Ratio 300:1/800:1

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

rubber

• **Light** Transmission Above 80%

Resolution Linearity

• Type 4-wire, analog resistive

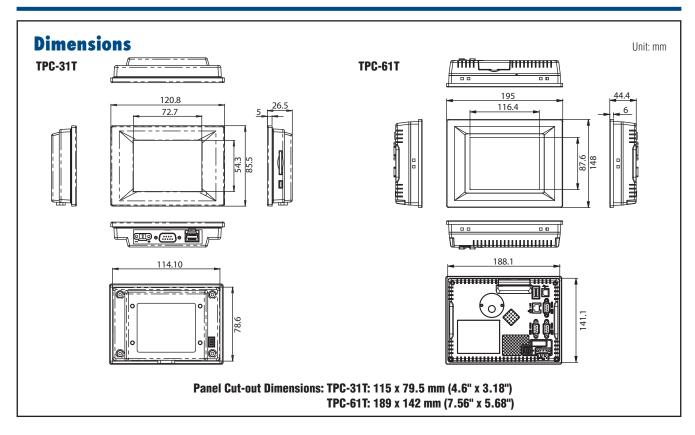
#### **Environment**

**Touchscreen** 

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

Ingress Protection Front panel: IP65
Operating Temperature 0 ~ 50°C (32 ~ 122°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

5.7" QVGA Touch Panel PC TI AM3517 600 MHz, ■ TPC-61T-E3AE 256 MB with WinCE 6.0

24 V 50 W AC-DC Power Adapter PWR-247-AE

### **Rear View**

