# **TPC-1251T**

## 12.1" TFT LED LCD Intel<sup>®</sup> Atom<sup>™</sup> **Thin Client Terminal**



### **Features**

- Industrial 12.1" XGA TFT LCD with 50K Lifetime LED Backlight
- Intel® Atom™ E3827 1.75 GHz Dual-core Processor with 4GB DDR3L SDRAM
- Supports wide operating temperatures -20~60°C
- True-flat with IP66 / non-flat with IP65 certified front panel protection
- Front LED Indicator to Show Operating Status
- Durable 5-wire Resistive Touch Screen
- Full-size Mini PCle Expansion Support
- Supports iDoor technology for diverse applications (optional accessory required)
- Compact Fanless Embedded System with Al Alloy Front Bezel, Chassis Grounding Protection
- Supports Advantech SNMP Subagent
- Supports Advantech SusiAccess Remote Device Management Software

XGA TFT LED LCD

# Introduction

The TPC-1251T thin client terminal with a 12.1" XGA LCD, low power embedded Intel® Atom™ E3827 1.75 GHz Dual-core Processor and 4GB (8GB optional) DDR3L SDRAM provides computing performance in a compact fanless system. To enhance its durability, the TPC-1251T is true-flat touch screen designed with IP66 front protection, die-cast AI Alloy front bezel and 5-wire resistive touch. It supports wide operating temperatures -20-60°C and includes full size mini-PCIe slot to extend the functionality and meet a variety of automation applications needs. Through the Mini-PCIe slot, Advantech iDoor technology (optional) can provide more I/O connectors, Isolated Digital IO, the Fieldbus Protocol, 3G/GPS/GPRS/ Wi-Fi Communication and Battery-backup MRAM.

# **Specifications**

### General

- BIOS AMI UEFI BSMI, CCC, CE, FCC Class A, UL
- Certification
- Cooling System
- Fanless design Dimensions (W x H x D) 311.80 x 238 x 57.2 mm (12.28" x 9.37" x 2.25") Front bezel: Die-cast Aluminum alloy

SDRAM

Back housing: SECC Desktop, Wall or Panel Mount

- Enclosure
- Mounting
- OS Support
- Power Consumption
- Power Input
- Watchdog Timer
- Weight (Net)

### System Hardware

- CPU
- Memory
- LAN
- **Expansion Slots** Storage
- I/0



10/100/1000 Base-T x 2

2.5" SATA SSD slot x 1 (optional)

RS-232 x 1, RS-232/422/485 x 1

Full-size Mini PCI-E

CFast slot x 1

USB 3.0 x 1 USB 2.0 x 1

Intel® Atom™ E3827 1.75 GHz Dual-core Processor

4GB (8GB optional) DDR3L 1600MHz SO-DIMM

- **LCD** Display Display Type
- **Display Size**
- Max. Resolution
- Max. Colors
- Luminance cd/m<sup>2</sup>
- Viewing Angle (H/V°)
- Backlight Life
- Contrast Ratio

### Touchscreen

- Lifespan
- Light Transmission
- Resolution
- Humidity
  - Ingress Protection

With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)



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- A. External HDD/SSD/iDoor kit (TPC-1251T-EHKE) (Optional)
- B. CFast

C.RS-232

- D.RS-232/422/485 E. USB 3.0 & 2.0 F. LAN (10/100/1000)
- G. Power Receptor

#### AD\ANTECH **Automation Panel PCs**

All product specifications are subject to change without notice

36 million touches at single point Above 75%

700:1

12.1"

16.2M

160/140

50.000 hrs

600

1024 x 768

- Linearity 5-wire, analog resistive
- Type

### Environment

- Storage Temperature
- Vibration Protection

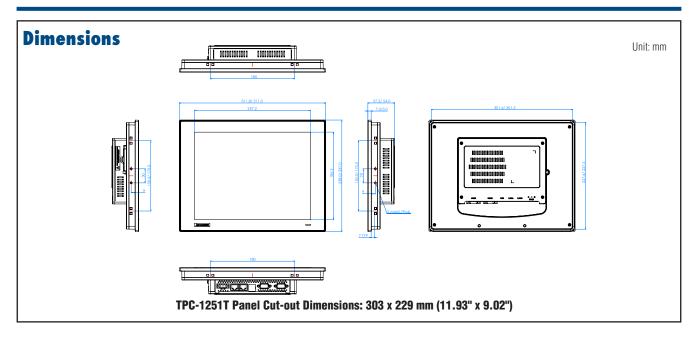
With CFast: 2 Grms (5~500 Hz)





- Front panel: IP66
- -20~60°C (-4~140°F)
- -30 ~ 70°C (-22 ~ 158°F)
- A

# **TPC-1251T**



# **Ordering Information**

- TPC-1251T-E3AE TPC-1251H-E3AE
- 12" XGA Panel PC, Intel® Atom™ E3827 1.75 GHz Dual-core Processor, 4GB (True-flat touch screen) 12" XGA Panel PC. Intel® Atom™ E3827 1.75 GHz Dual-core Processor, 4GB (Non-flat touch screen IP65 certified traditional TPC front panel)

60W DC 24V/2.5A Output Power Supply

Power Cable China/Australia Plug 1.8 M

TPC Stand kit from 10" to 17" TPC

TPC VESA Mounting Kit from 10" to 17" TPC

TPC-xx51T/H WS7P x64 MUI Image v4.13

HDD/SSD and iDoor extension kit

Power Cable US Plug 1.8 M

Power Cable EU Plug 1.8 M

Power Cable UK Plug 1.8 M

# Accessories

- PWR-247-CE
- TPC-1251T-EHKE
- **1702002600**
- **1702002605**
- 1702031801
- 1700000596
- TPC-1000H-WMKE
- TPC-1000H-SMKE

# Automation S/W & Embedded O/S

- 2070013613
- TPC-xx51T/H WS7P x86 MUI Image v4.12
- 2070013827 968WEXP003X
- 968WEXP015X
- 968WEXP050X
- 968WEXP2USB
- PanelExpress V2.0 S/W USB dongle

# iDoor Modules (TPC-1251T-EHKE is required for iDoor modules)

- PCM-26D2CA SJA1000 CANBus, CANOpen, DB9 x 2
- PCM-26D1PB Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
- PCM-27D24DI Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
- PCM-24D2R4 OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2
- OXPCIe-952 UART, Isolated RS-232, DB9 x 2 PCM-24D2R2
- 2 Port Giga LAN Intel i350 PCIe mini card PCM-24R2GL
- PCM-24R1TP Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1
- PCM-24S2WF 802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462

# **Application Software**

susiÂccess	Version : V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAcc-ss	Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
PANEL EXPRESS	Version : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
Webop	Version : V2.0.3.8 or above An easy to use integrated development tool featuring solution-oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, and sub-second screen switching.

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- TPC-1251T/H WEC7 x64 MUI Image V4.00
- PanelExpress V2.0 300 tags S/W license
- PanelExpress V2.0 1500 tags S/W license
  - PanelExpress V2.0 5000 tags S/W license