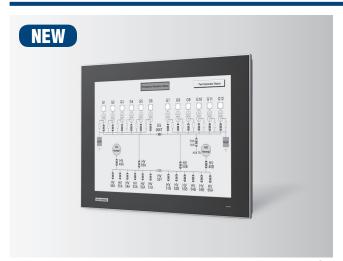
TPC-1551T

15" XGA TFT LED LCD Intel® Atom™ **Thin-Client Terminal**



Features

- Industrial 15" 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 touchscreen
- 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 WISE-PaaS/RMM Remote Device Management Software

XGA TFT LED LCD

15'

1024 x 768

16.7 M

160/140

50.000 hrs

Above 75%

Linearity

400

700:1



Introduction

The TPC-1551T thin client terminal with a 15" XGA LCD, low power embedded Intel® Atom™ E3827 1.75 GHz Dual-core Processor and 4GB DDR3L SDRAM provides computing performance in a compact fanless system. To enhance its durability, the TPC-1551T is true-flat touchscreen designed with IP66 front protection, die-cast Al Alloy front bezel and 5-wire resistive touch. It supports wide operating temperatures -20-60°C and includes full size mini-PCle 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/WiFi Communication and MRAM.

> **LCD** Display Display Type

Display Size

Max. Colors

Backlight Life

Contrast Ratio

Touchscreen

Resolution

Environment

Humidity

Lifespan

Type

Max. Resolution

Luminance cd/m²

Viewing Angle (H/V°)

Light Transmission

Specifications

General

BIOS AMI UEFI

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

 Cooling System Fanless design

Dimensions (W x H x D) 383,20 x 307,30 x 61,10 mm (15,09" x 12,10" x 2,41")

Front bezel: Die-cast Aluminum alloy Enclosure

Back housing: SECC

Mounting Desktop, Wall or Panel Mount

Microsoft® WES7 32bit/64bit / WE8S 64bit / Windows OS Support

7/8.1 32bit/64bit / Windows 10 Enterprise LTSB

 Power Consumption 40.8 W (typical) 24 V_{DC} +/- 20% Power Input

Watchdog Timer 1 ~ 255 sec (system)

Weight (Net) 3.9 KG

System Hardware

- CPU Memory

LAN 10/100/1000 Base-T x 2 **Expansion Slots** Full-size Mini PCI-E

CFast slot x 1 Storage

2.5" SATA SSD slot x 1 (optional) I/0 RS-232 x 1, RS-232/422/485 x 1

USB 3.0 x 1 USB 2.0 x 1

Intel® Atom™ E3827 1.75 GHz Dual-core Processor

1 x SO-DIMM with 4GB DDR3L SDRAM (supports up to

Operating Temperature Storage Temperature Vibration Protection

Ingress Protection

 $10 \sim 95\%$ RH @ 40° C, non-condensing Front panel: IP66

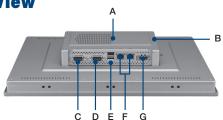
36 million touches at single point

-20 ~ 60°C (-4 ~ 140°F) -30 ~ 70°C (-22 ~ 158°F) With CFast: 2 Grms (5~500 Hz) With HDD: 1 Grms (5 ~ 500 Hz)

(Operating, random vibration)

5-wire, analog resistive

Rear View



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

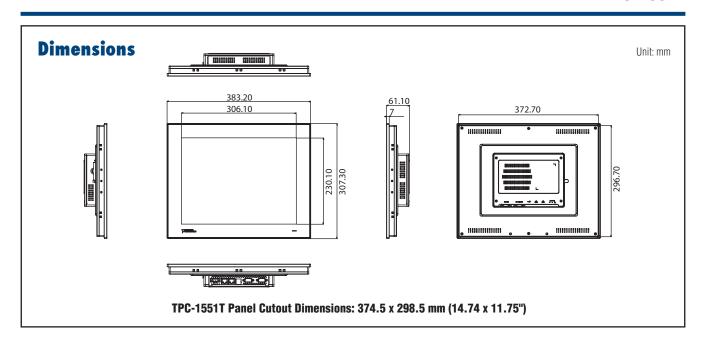
B. CFast C.RS-232

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

G. Power Receptor

ADVANTECH

Thin-Client Terminals



Ordering Information

• TPC-1551T-E3AE 15" XGA Panel PC, Intel® Atom™ E3827 1.75 GHz
Dual-core Processor, 4GB (True-flat touchscreen)

■ **TPC-1551H-E3AE**15" XGA Panel PC, Intel® Atom™ E3827 1.75 GHz

Dual-core Processor, 4GB (Non-flat touchscreen IP65

certified traditional TPC front panel)

Optional Accessories

• **PWR-247-CE** 60W DC 24V/2.5A Output Power Supply

TPC-1251T-EHKE HDD/SSD and iDoor extension kit
 1702002600 Power Cable US Plug 1.8 M
 1702002605 Power Cable EU Plug 1.8 M

1702031801 Power Cable UK Plug 1.8 M
 1700000596 Power Cable China/Australia Plug 1.8 M
 TPC-1000H-WMKE TPC VESA Mounting Kit from 10" to 17" TPC

■ TPC-1000H-SMKE TPC Stand kit from 10" to 17" TPC

Embedded O/S

2070014327 TPC-xx51T/H WS7P x64 MUI Image v4.14
 2070013613 TPC-xx51T/H WS7P x86 MUI Image v4.12
 2070014303 TPC-1251T/H WEC7 x64 MUI Image V4.00

2070014400 TPC-xx51T/H Win10 Enterprise LTSB x64 MUI image

v6.00 B002

S/W Bundle Offering

 WA-HT1551T-E15H1AE TPC-1551T-E3AE, HMI Runtime 1500 tags, 32G CFast, WES7P

WA-ST1551T-E15H4AE TPC-1551T-E3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P

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

• PCM-26D2CA-AE SJA1000 CANBus, CANOpen, DB9 x 2

PCM-26D1DB-MAE Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
 PCM-27D24DI-AE Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

■ **PCM-24D2R4-AE** OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2

PCM-24D2R2-AE
 PCM-24R2GL-AE
 OXPCIe-952 UART, Isolated RS-232, DB9 x 2
 2 Port Giga LAN Intel i350 PCIe mini card

PCM-24R1TP-AE
 Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1
 PCM-24S2WF-BE
 802.11 a/b/g/n/ac 2T2R w/BT4.1, Atheros QCA6174A

Application Software

WebAccess/SCADA

Advantech WebAccess is a 100% web based SCADA (Supervisory Control And Data Acquisition) software and it acts as an IIoT Platform providing open interfaces for partners to develop IoT applications for different vertical markets. In addition to traditional SCADA functions, WebAccess has an intelligent Dashboard, to provide users with cross-platform, cross-browser data analysis and user interface using HTML5 technology. As well as the built-in widgets, WebAccess also provides Widget Builder to allow customers to build their own.

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.