TPC-1051WP 10.1" WXGA TFT LED LCD Thin-Client Terminal with Intel[®] Atom[™] Process

Terminal with Intel[®] Atom[™] Processor



Features

- Industrial-grade 10.1" WXGA TFT LCD with 50K lifetime and LED backlight
- Intel® Atom™ E3827 1.75 GHz dual-core processor with 4 GB DDR3L SDRAM
- 16:9 widescreen display with PCAP multi-touch control
- IP66-rated front panel and panel mount
- Built-in intelligent home key and iKey for intuitive operation
- Front-facing LED indicators to show operating status .
- Supports Advantech's iDoor technology for integrating optional accessories
- Chassis grounding protection
- Anti-scratch surface with 7H hardness
- Supports AC/DC input with optional power adapter
- Supports Advantech's SNMP Subagent software
- Supports Advantech's WISE-PaaS/RMM remote management software

Introduction

The TPC-1051WP thin-client terminal is equipped with a 10.1" WXGA TFT LCD, low-power Intel® Atom™ E3827 1.75 GHz dual-core processor, and 4 GB DDR3L SDRAM to deliver sufficient computing performance in a compact, fanless system. For enhanced durability, TPC-1051WP features a true-flat touchscreen with IP66-rated front panel, die cast aluminum alloy front bezel, and projected capacitive touch control. Because of the system's compact but robust design, it can be easily deployed into existing infrastructure. Moreover, Advantech's iDoor technology can be integrated via the mini PCIe slot in order to provide additional I/O connectors, isolated digital I/O, fieldbus protocols, 3G/GPS/GPRS/Wi-Fi communication, and MRAM to support diverse industrial automation applications.

Specifications

General

BIOS	AMI UEFI
 Certification 	BSMI, CCC, CE, FCC Class A, UL
 Cooling System 	Fanless design
 Dimensions (W x H x D) 	283.1 x 202.3 x 61.4 mm (11.15 x 7.96 x 2.42 in)
 Enclosure 	Front bezel: Die cast aluminum alloy Back housing: SECC
 Mounting 	Desktop, Wall, Panel Mount, and VESA mount (with optional kit)
 OS Support 	Microsoft [®] WES7 (32/64-bit), Windows 7 (32/64-bit), Windows 10 Enterprise LTSB
 Power Input 	$24 V_{DC} \pm 20\%$
 Power Consumption 	36 W(Typical)
 Watchdog Timer 	1 ~ 255 sec (system)
 Weight (Net) 	2.56 kg (5.64 lbs)
System Hardware	
• CPU	Intel [®] Atom™ E3827 1.75 GHz processor
 Memory 	4 GB (8 GB optional) DDR3L 1600 MHz SODIMM SDRAM
- LAN	2 x 10/100/1000BASE-T
Expansion Slots	1 x Full-size mini PCle
 Storage 	1 x CFast 1 x 2.5" SATA SSD (optional)
• I/O	1 x RS-232 1 x RS-232/422/485 1 x USB 3.0 1 x USB 2.0

LCD Display

- Display Type
 - WXGA TFT LED LCD 10.1"

262k

- **Display Size** Max. Resolution 1280 x 800
- Max. Colors
- Luminance cd/m²
- 300 Viewing Angle (H/V°)
- 170/170 Backlight Life 25.000 hr
- **Contrast Ratio** 1300:1

Touchscreen

- Light Transmission
- Resolution Type
- 90% ± 3% 2048 x 2048 dot Projected capacitive

Environment

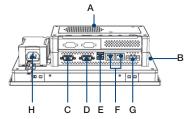
- Humidity
- Ingress Protection **Operating Temperature**
- Storage Temperature
- Vibration Protection
 - With HDD: 1 Grms (5 ~ 500 Hz), (Operating, random vibration)

Front panel: IP66

-20~55 °C (-4~131 °F) -30 ~ 70 °C (-22 ~ 158 °F)

10 ~ 95% RH @ 40 °C, non-condensing

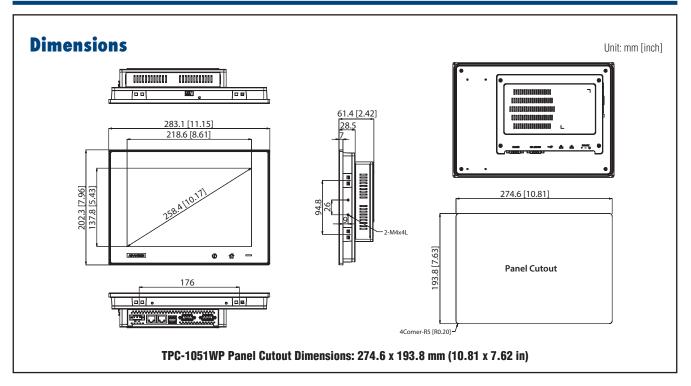
Rear View



- A. External HDD/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
- H. Power adapter and bracket (optional)

AD\ANTECH **Industrial Thin-Client Terminals**

TPC-1051WP



Ordering Information

- TPC-1051WP-E3AE
- 10.1" Multi-Touch Panel PC, Intel Atom E3827, 4GB DDR3L pre-installed

Optional Accessories

- TPC-1000H-ADKE 63W DC 24V/2.62A Power supply & bracket for
- PWR-247-DE TPC-xx51WP series
 PWR-247-DE 100-240V 60W 24V 2.5A Power Supply
 - (w/o adapter mounting)
- **TPC-1251T-EHKE** HDD 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
- 1700000596-11 Power Cable China/Australia Plug 1.8 M
- TPC-1000H-WMKE TPC series wallmount kit from 10"~17"

Embedded OS

- 2070013484 TPC-xx51WP WS7P x64 MUI V4.13
- 2070014387 TPC-xx51WP WS7P X86 MUI. V4.14
- 2070014871 TPC-xx51WP Win10 2016 LTSB V6.01
- 2070013911 TPC-1551WP WEC7 X64 MUI V4.00

S/W Bundle Offering

• WA-HT1051W-E15H1AE TPC-1051WP-E3AE, HMI Runtime 1500 tags, 32G CFast, WES7P

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

- PCM-26D2CA-AEPCM-26D1DB-MAE
- PCW-26DTDB-MAE
 PCM-27D24DI-AE
- PUW-2702401-AE
 PCM-24D2R4-AE
- PUN-24U2K4-AE
 DCM 04D0D0 45
- PCM-24D2R2-AE
- PCM-24R2GL-AE
- PCM-24R1TP-AE
- PCM-24S2WF-AE

OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2 OXPCIe-952 UART, Isolated RS-232, DB9 x 2 2 Port Giga LAN Intel i350 PCIe mini card Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1

Hilscher netX100 FieldBus, ProfiBus, DB9 x 1

Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462

SJA1000 CANBus, CANOpen, DB9 x 2

Application Software

WebAccess/SCADA	Advantech WebAccess/SCADA is a 100% browser-based IIoT software platform aimed at supervisory control and data acquisition (SCADA) operations. WebAccess/SCADA provides open interfaces that allow our customers and partners to develop unique IoT applications for different vertical markets. In addition to supporting traditional SCADA functions, the platform features an HTML5-based user interface and intelligent dashboard to facilitate cross-platform, cross-browser data analysis. Moreover, WebAccess/SCADA not only offers built-in widgets, but is also equipped with an innovative Widget Builder that enables customers to build their own widgets.
WebAccess/HMI	Advantech WebAccess/HMI is human-machine interface (HMI) software based on Microsoft's Windows operating system. This software features excellent communication and monitoring capabilities, supports more than 350 PLC communication protocols, and offers a wide choice of screen design objects to satisfy diverse integrations of factory automation and HMI operation and monitoring requirements.

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.