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 PCle 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

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

 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)

Front bezel: Die cast aluminum alloy Enclosure

Back housing: SECC

Desktop, Wall, Panel Mount, and VESA mount Mounting

(with optional kit)

Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), OS Support

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

2 x 10/100/1000BASE-T LAN Expansion Slots 1 x Full-size mini PCle Storage *1 x CFast slot

*Storage OPAL function is not supported

1 x 2.5" SATA SSD (optional)

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 **Display Size** 10.1" Max. Resolution 1280 x 800 Max. Colors 262k Luminance cd/m² 300 Viewing Angle (H/V°) 170/170 **Backlight Life** 25.000 hr

Touchscreen

Contrast Ratio

Light Transmission $90\% \pm 3\%$ Resolution 2048 x 2048 dot Type Projected capacitive

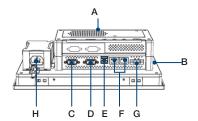
Environment

Humidity 10 ~ 95% RH @ 40 °C, non-condensing Ingress Protection Front panel: IP66

1300:1

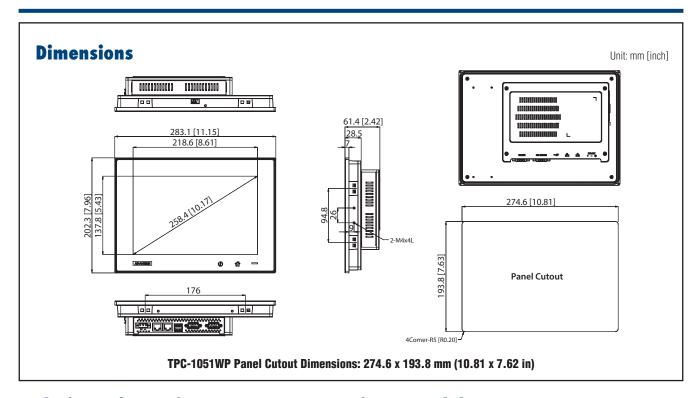
Operating Temperature -20 ~ 55 °C (-4 ~ 131 °F) -30 ~ 70 °C (-22 ~ 158 °F) Storage Temperature **Vibration Protection** With HDD: 1 Grms (5 ~ 500 Hz), (Operating, random vibration)

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)

I/0



Ordering Information

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

Optional Accessories

PWR-247-DE
100-240V 60W 24V 2.5A Power Supply

(w/o adapter mounting)

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-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 OXPCIe-952 UART, Isolated RS-232, DB9 x 2

PCM-24R2GL-AE
PCM-24R1TP-AE
PCM-24R1

■ **PCM-24S2WF-AE** 802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462

Application Software

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 WebAccess/SCADA 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. 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 WebAccess/HMI 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.