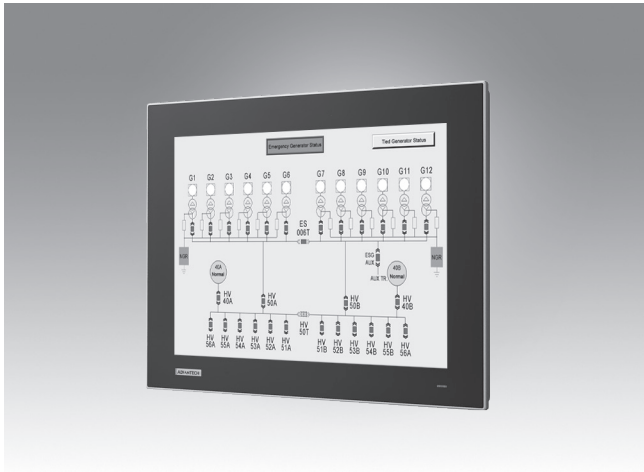


TPC-1751T(B)

17" SXGA TFT LED LCD Thin-Client Terminal with Intel® Atom™ Processor



Features

- Industrial-grade 17" XGA TFT LCD with 50K lifetime and LED backlight
- Intel® Atom™ E3845 1.91 GHz quad-core processor with 4 GB DDR3L SDRAM
- True-flat touchscreen with 5-wire resistive touch control and IP66-rated front panel
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Front-facing LED indicators to show operating status
- Advantech iDoor technology and SSD/HDD bay
- Compact, fanless system with aluminum alloy front bezel and chassis grounding protection
- Supports VESA mount (100 x 100 mm)
- Supports Advantech's SNMP Subagent software
- Supports Advantech's WISE-PaaS/RMM remote management software



Introduction

The TPC-1751T(B) thin-client terminal is the next-generation model of Advantech's TPC-1751T(A) industrial panel PC. Equipped with a 17" XGA TFT LED LCD, low-power Intel® Atom™ E3845, 1.91GHz, quad-core processor, and 4 GB of DDR3L SDRAM, TPC-1751T(B) delivers high-performance computing in a compact, fanless system. For enhanced durability to satisfy diverse industrial automation applications, TPC-1751T(B) supports a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F) and features a true-flat 5-wire resistive touchscreen with IP66-rated front panel, die-cast aluminum alloy front bezel, and 100 x 100 VESA mount kit. Moreover, with the provision of two full-size mini PCIe slots, which support mSATA interface for storage and USB/PCIe interface for Advantech's iDoor technology separately, TPC-1751T(B) can be easily expanded to provide additional I/O ports, isolated digital I/O, fieldbus protocols, MRAM, and 3G/GPS/GPRS/Wi-Fi communication capabilities.

Specifications

General

- BIOS**: AMI UEFI
- Certification**: BSMI, CCC, CE, FCC Class A, UL
- Cooling System**: Fanless design
- Dimensions (W x H x D)**: 410.4 x 343.4 x 56.9 mm (16.16 x 13.52 x 2.24 in)
- Enclosure**: Front bezel: Die-cast aluminum alloy
Back housing: SECC
- Mount Options**: VESA mount, Desktop/wall/panel
- OS Support**: Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), Windows 10 Enterprise LTSB, Android, Advantech Linux
- Power Consumption**: 29W Typical, 58W Max.
- Power Input**: 24 V_{DC} +/- 20%
- Watchdog Timer**: 1 ~ 255 sec (system)
- Weight (Net)**: 5.1kg

System Hardware

- CPU**: Intel® Atom™ E3845, 1.91 GHz, quad core
- Memory**: 1 x SODIMM with 4 GB DDR3L SDRAM (up to 8 GB)
- LAN**: 2 x Intel® I210; 10/100/1000 BASE-T
- Expansion Slots**: 1 x Full-size mini PCIe (USB+PCIe interface)
- Storage**: 1 x 2.5" SATA SSD, 1 x mSATA
- I/O**: 1 x RS-232
1 x RS-232/422/485
1 x USB 3.0
3 x USB 2.0
1 x iDoor slot

LCD

- Display Type**: SXGA TFT LED LCD
- Display Size**: 17"
- Max. Resolution**: 1280 x 1024
- Max. Colors**: 16.7M
- Luminance**: 350 cd/m²
- Viewing Angle (H/V°)**: 160/140
- Backlight Life**: 50,000 hr
- Contrast Ratio**: 800:1

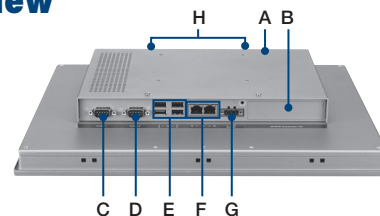
Touchscreen

- Lifespan**: 36 million touches at a single point
- Light Transmission**: Above 75%
- Resolution**: Linearity
- Type**: 5-wire analog resistive

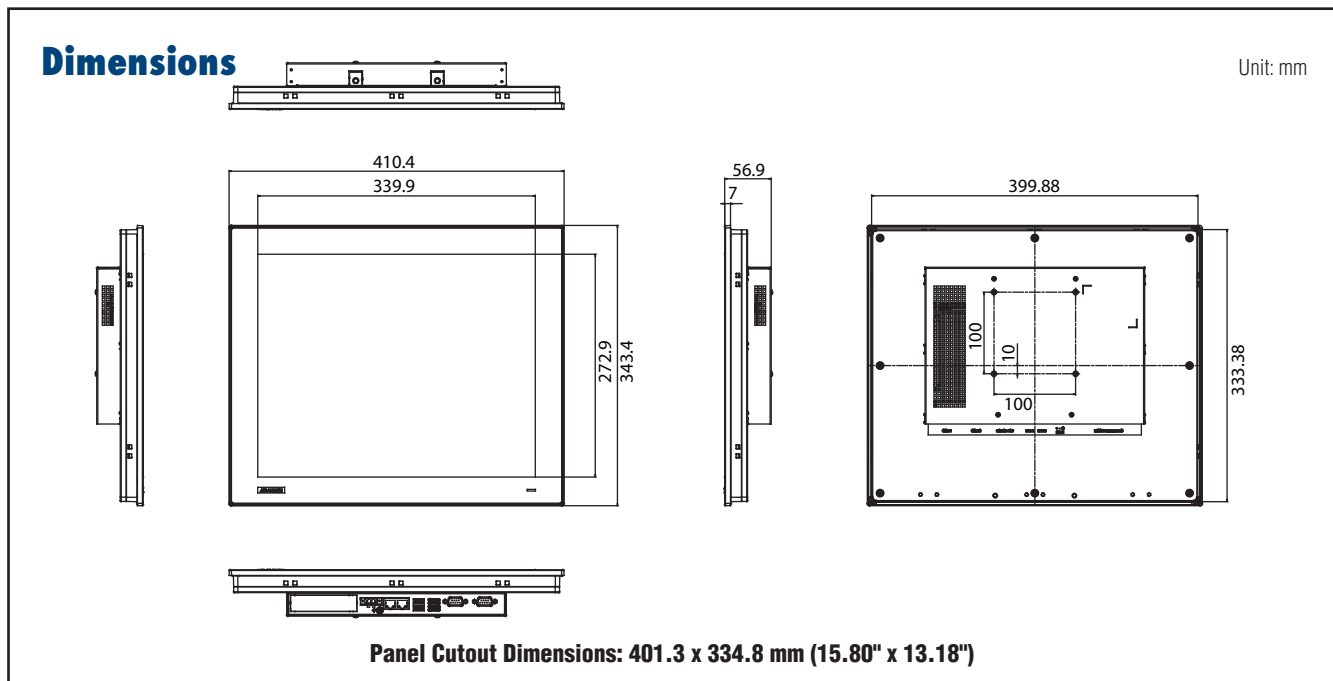
Environment

- Humidity**: 10 ~ 95% RH @ 40 °C, non-condensing
- Ingress Protection**: IP66-rated front panel
- Operating Temperature**: -20 ~ 60 °C (-4 ~ 140 °F)
- Storage Temperature**: -30 ~ 70 °C (-22 ~ 158 °F)
- Vibration Protection**: With SSD: 1 Grms (5 ~ 500 Hz) (operating, random vibration)

Rear View



- A. HDD/SSD bay
- B. iDoor slot
- C. RS-232
- D. RS-232/422/485
- E. USB 2.0 and 3.0
- F. LAN (10/100/1000)
- G. Power input
- H. Antenna port



Ordering Information

- **TPC-1751T-E3BE** 17" SXGA panel PC with Intel® Atom™ E3845, 1.91 GHz quad-core CPU, 4 GB DDR3L SDRAM, and true-flat touchscreen
- **TPC-1751T-E3BU** 17" SXGA panel PC with Intel® Atom™ E3845, 1.91 GHz quad-core CPU, 4 GB DDR3L SDRAM, and trueflat touchscreen (For USA only)

Note: Can be equipped with an Intel® Atom™ J1900 CPU upon request

- **PCM-24D2R4-BE** OXPcie-952 UART with isolated RS-422/485 and 2 x DB9
- **PCM-24D2R2-BE** OXPcie-952 UART with isolated RS-232 and 2 x DB9
- **PCM-24R2GL-AE** 2-Port GigaLAN Intel® i350 PCIe mini card
- **PCM-24R1TP-AE** Intel® 82574L, GbE, IEEE 1588 PTP, 1 x RJ45
- **PCM-262R2EC-MAE** Hilscher netX100 fieldbus mPCIe with EtherCAT, 2 x RJ45, Master
- **PCM-27J3AU-AE** 3-Port audio stereo with mPCIe and 3.5-mm jack
- **PCM-29R1TX-AE** 1-Port iLink(TX) long-distance display transmitter with RJ45

Optional Accessories

- **PWR-247-DE** 60W 24 V_{dc} /2.5A power supply
- **1702002600** Power cable (US) 1.8 M
- **1702002605** Power cable (EU) 1.8 M
- **1702031801** Power cable (UK) 1.8 M
- **1700000596-11** Power cable (China/Australia) 1.8 M

Embedded OS

- **20703WE7PS0027** TPC-xx51T(B) WS7P x86 MUI Image V4.19
- **20703WE7PS0028** TPC-xx51T(B) WS7P x64 MUI Image V4.19
- **20703WX9ES0023** TPC-xx51T(B) Win10 x64 LTSC v6.05 B015 Entry (2020)
- **20703AI0NS0010** TPC-xx51T(B) Android v6.0
- **20701LUB1S0005** TPC-xx51T(B) Advantech Linux Ubuntu 20.04

iDoor Modules

- **PCM-26D2CA-AE** SJA1000 CANbus module with CANopen and 2 x DB9
- **PCM-26D1DB-MAE** Hilscher netX100 fieldbus module with PROFIBUS and 1 x DB9
- **PCM-27D24DI-AE** Digital I/O module with 16 DI/8 DO, isolation protection, and 1 x DB37

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 automation applications and HMI 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.

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.