

TPC-1782H

17" SXGA TFT LED LCD Touch Panel Computer with 4th Gen. Intel® Core™ i3 Processor



Introduction

The TPC-1782H touch panel computer is equipped with a 17" SXGA TFT LCD, low-power 4th Gen Intel® Core™ i3-4010U/i7-4650U 1.7 GHz processor, and 4 GB DDR3L SDRAM to deliver high-performance computing in a compact, fanless system. To enhance the system's durability, TPC-1782H features an IP65-rated front panel that protects against dust and water ingress, a die-cast aluminum alloy front bezel, and 5-wire resistive touch control. TPC-1782H also includes PCIe and mini PCIe slots to extend the system functionalities and satisfy diverse automation application needs. 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. The integrated HDMI and audio ports allow a secondary monitor and speakers to be attached for increased functionality.

Specifications

General

▪ BIOS	AMI UEFI
▪ Certification	BSMI, CCC, CE, FCC Class A, UL
▪ Cooling System	Fanless design
▪ Dimensions (W x H x D)	414 x 347.5 x 84 mm (16.3 x 13.68 x 3.31 in)
▪ Enclosure	Front bezel: Die cast aluminum alloy Back housing: PC/ABS resin
▪ Mounting	Desktop, Wall or Panel Mount
▪ OS Support	Microsoft® WEST (32/64-bit), Windows 7 (32/64-bit), Windows Embedded 8.1 Industry Pro (64-bit), Windows 10 IoT Enterprise LTSB
▪ Power Consumption	20W typical, 60W max. (without add-on card)
▪ Power Input	24V _{DC} ± 20%
▪ Watchdog Timer	1 ~ 255 sec (system)
▪ Weight (Net)	6 kg (13.23 lbs)

System Hardware

▪ CPU	4th Gen Intel Core i3-4010U/i7-4650U 1.7 GHz
▪ Chipset	Lynx Point-LP
▪ Memory	4 GB DDR3L 1600 MHz SODIMM SDRAM
▪ LAN	2 x 10/100/1000BASE-T (1 x supports iAMT)
▪ Expansion Slots	1 x half-size PCIe, 1 x full-size mini PCIe
▪ Storage	1 x CFast 1 x 2.5" SATA SSD
▪ I/O	1 x RS-232, 1 x RS-232/422/485 2 x USB 3.0, 1 x HDMI 1.4 1 x Audio line out, 1 x USB 2.0 (optional) 1 x Audio mic in (optional)

LCD Display

▪ Display Type	SXGA TFT LED LCD
▪ Display Size	17"
▪ Max. Resolution	1280 x 1024

Features

- Industrial-grade 17" SXGA TFT LCD with 50K lifetime and LED backlight
- 4th Gen Intel® Core™ i3-4010U/i7-4650U with 4 GB DDR3L SDRAM
- Compact, fanless embedded system with aluminum alloy front bezel
- IP65-rated front panel and panel mount
- Durable touchscreen with 5-wire resistive touch control
- Supports expansion via PCIe 1x and mini PCIe
- Diverse system I/O and isolated digital I/O via iDoor technology
- Supports fieldbus protocols via iDoor technology
- 3G/GPS/GPRS/Wi-Fi capabilities via iDoor technology
- Supports MRAM via iDoor technology
- Chassis grounding protection
- Supports Advantech's SNMP Subagent software
- Supports Advantech's WISE-PaaS/RMM remote management software

▪ Max. Colors	16.7M
▪ Luminance cd/m²	350
▪ Viewing Angle (H/V°)	160/140
▪ Backlight Life	50,000 hr
▪ Contrast Ratio	800:1

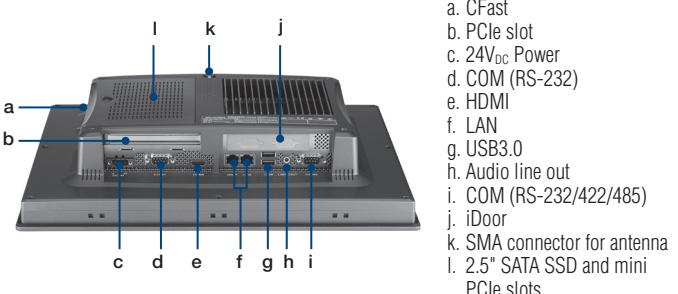
Touchscreen

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

Environment

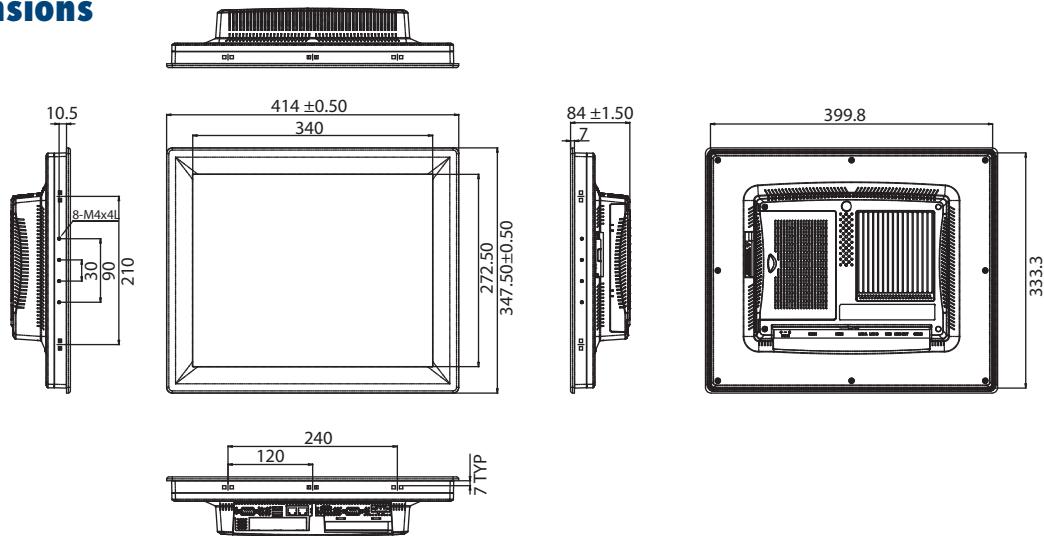
▪ Humidity	10 ~ 95% RH @ 40 °C, non-condensing
▪ Ingress Protection	Front panel: IP65
▪ Operating Temperature	0 ~ 55 °C (32 ~ 131 °F)
▪ Storage Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
▪ Vibration Protection	With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

Rear View



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Dimensions



Unit: mm

Panel Cutout Dimensions: 400.8 x 334.3 mm (16.03 x 13.37 in)

Ordering Information

- **TPC-1782H-433AE** 17" SXGA Panel PC, Intel i3-4010U, 4GB, iDoor, PCIe
- **TPC-1782H-473AE** 17" SXGA Panel PC, Intel i7-4650U, 4GB, iDoor, PCIe

Optional Accessories

- | | |
|--------------------------|--|
| ▪ 96PSA-A150W24T2 | Adapter 100-240V 150W 24V |
| ▪ 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 VESA Mounting Kit from 10" to 17" TPC |
| ▪ TPC-1000H-SMKE | TPC Stand kit from 10" to 17" TPC |
| ▪ EWM-W151H01E | 802.11bgn RTL8188EE 1T1R, Half-size Mini PCIe
(also need 9656EWMG00E) |
| ▪ 9656EWMG00E | Half-size miniPCIe to Full-size miniPCIe bracket set |
| ▪ 1750000318 | EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384 |
| ▪ 1750003222 | 802.11b/g 5dBi Dipole Antenna |
| ▪ 1750003418 | Wireless Antenna AN2400-5901RS R/P SMA.M9dB |

Embedded OS

- **2070013102** TPC-xx82 WS7P x64 MUI Image v4.12 B005
- **2070013700** TPC-xx82 WS7P x86 MUI Image v4.12

iDoor Modules

- | | |
|-------------------------|---|
| ▪ PCM-24D2R4-AE | 2-Port Isolated RS-422/485 mPCIe, DB9 |
| ▪ PCM-27D24DI-AE | 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37 |
| ▪ PCM-26D2CA-AE | 2-Port Isolated CANBus mPCIe, CANOpen, DB9 |
| ▪ PCM-24R1TP-AE | 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45 |
| ▪ PCM-24S2WF-AE | WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA |
| ▪ PCM-26R2EC-MAE | 2-Port Hilscher netX100 FieldBus mPCIe, EtherCAT, RJ45, Master |
| ▪ PCM-26R2EI-MAE | 2-Port Hilscher netX100 FieldBus mPCIe, EtherNet/IP, RJ45, Master |
| ▪ PCM-26R2S3-MAE | 2-Port Hilscher netX100 FieldBus mPCIe, Sercos III, RJ45, Master |

Application Software

WebAccess/SCADA	<p>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.</p>
WebAccess/HMI	<p>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.</p>
 CODESYS	<p>The CODESYS application-ready-package offering includes a PC-based panel controller with multi-touch control, high-performance Intel Core i multi-core processor, SSD, 2 MB MRAM, Microsoft Windows Embedded 7 Pro OS, and CODESYS Control Runtime & Visualization software. This package allows users to easily develop a PC-based real-time control system, enables real-time PLC or PLC/SoftMotion control with flexible fieldbus options such as PROFINET, EtherCAT, EtherNet/IP, CANopen, and Modbus TCP/RTU, and facilitates on-site visualized HMI operation. The software/hardware flexibility and the stability of a PC-based cabinet controller are suitable for various control applications in vertical industries.</p>



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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