

TPC-1782H

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



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

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® WES7 (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

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

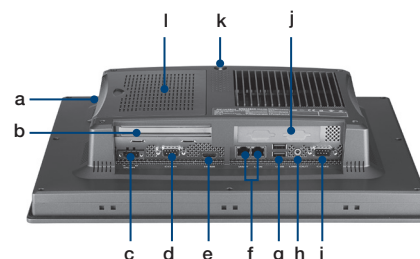
Touchscreen

- 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)

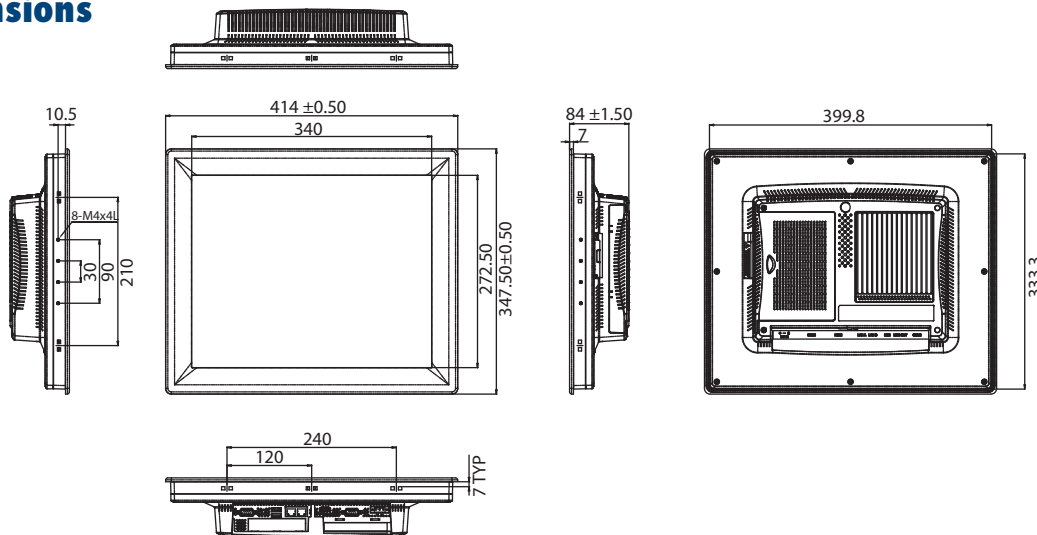
Rear View



- a. CFast
- b. PCIe slot
- c. 24V_{DC} Power
- d. COM (RS-232)
- e. HDMI
- f. LAN
- g. USB3.0
- h. Audio line out
- i. COM (RS-232/422/485)
- j. iDoor
- k. SMA connector for antenna
- l. 2.5" SATA SSD and mini PCIe slots

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-PCle (also need 9656EWMG00E)
- 9656EWMG00E Half-size miniPCle to Full-size miniPCle 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 mPCle, DB9
- PCM-27D24DI-AE 24-Channel Isolated Digital I/O w/ counter mPCle, DB37
- PCM-26D2CA-AE 2-Port Isolated CANBus mPCle, CANOpen, DB9
- PCM-24R1TP-AE 1-Port Gigabit Ethernet, Intel® 82574L, mPCle, RJ45
- PCM-24S2WF-AE WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0, Half-size mPCle, 2-port SMA
- PCM-26R2EC-MAE 2-Port Hilscher netX100 FieldBus mPCle, EtherCAT, RJ45, Master
- PCM-26R2EI-MAE 2-Port Hilscher netX100 FieldBus mPCle, EtherNet/IP, RJ45, Master
- PCM-26R2S3-MAE 2-Port Hilscher netX100 FieldBus mPCle, Sercos III, RJ45, Master

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.
CODESYS	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.

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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DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



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.