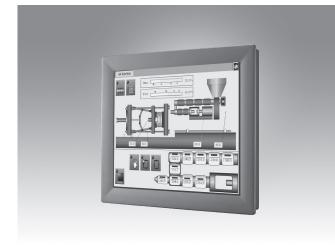
TPC-1782H

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

 Enclosure Mounting OS Support Power Consumption Power Input Watchdog Timer 	AMI UEFI BSMI, CCC, CE, FCC Class A, UL Fanless design 414 x 347.5 x 84 mm (16.3 x 13.68 x 3.31 in) Front bezel: Die cast aluminum alloy Back housing: PC/ABS resin Desktop, Wall or Panel Mount Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), Windows Embedded 8.1 Industry Pro (64-bit), Windows 10 IoT Enterprise LTSB 20W typical, 60W max. (without add-on card) 24V _{DC} ± 20% 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 Even en el	2 x 10/100/1000BASE-T (1 x supports iAMT)
 Expansion Slots Storage 	1 x half-size PCle, 1 x full-size mini PCle 1 x CFast
 Storage 	1 x 2.5" SATA SSD
- 1/0	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
	D' I O'	4 70

- Display Size Max. Resolution
- 17" 1280 x 1024

Max. Colors

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

Touchscreen

- Lifespan
- **Light Transmission**
- Resolution
- Type

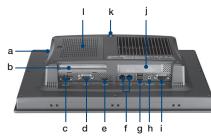
Environment

Front panel: IP65

5-wire analog resistive

(Operating, random vibration)

Rear View



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

Online Download www.advantech.com/products

Last updated: 27-Jun-2018

- Humidity Ingress Protection
- **Operating Temperature** Storage Temperature
 - Vibration Protection

16.7M

Above 75%

Linearity

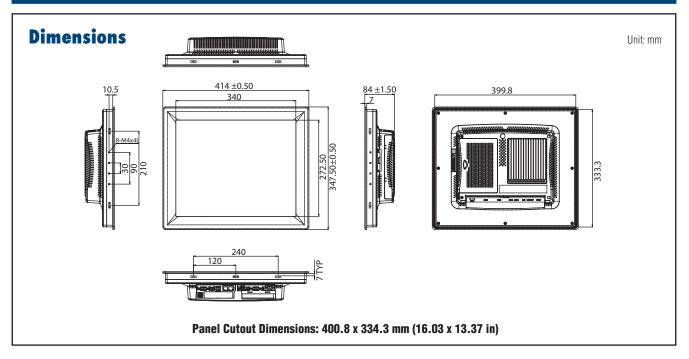
36 million touches at single point

0~55 °C (32~131 °F) -20 ~ 60 °C (-4 ~ 140 °F)

10 ~ 95% RH @ 40 °C, non-condensing

- With HDD: 1 Grms (5 ~ 500 Hz)

TPC-1782H



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
 - Power Cable UK Plug 1.8 M
- 1702031801 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
- EWM-W151H01E
 - 802.11bgn RTL8188EE 1T1R, Half-size Mini-PCle (also need 9656EWMG00E)
- 9656EWMG00E
- Half-size miniPCle to Full-size miniPCle bracket set EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384 • 1750000318 802.11b/g 5dBi Dipole Antenna
- 1750003222

• 1750003418

Embedded OS

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

TPC Stand kit from 10" to 17" TPC

Wireless Antenna AN2400-5901RS R/P SMA.M9dB

iDoor Modules

 PCM-24D2R4-AE PCM-27D24DI-AE 	2-Port Isolated RS-422/485 mPCIe, DB9 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 mPCle, 2-port SMA
PCM-26R2EC-MAE	2-Port Hilscher netX100 FieldBus mPCIe, 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

	Advantech WebAccess/SCADA is a 100%
	browser-based IIoT software platform aimed at
	supervisory control and data acquisition (SCADA)
	operations. WebAccess/SCADA provides open
WebAccess/SCADA	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.
	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
CODESYS	flexible fieldbus options such as PROFINET, EtherCAT,
CODESYS	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.