

www.coastipc.com | 866-412-6278 | info@coastipc.com

TPC-1582H

15" XGA 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 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 HDMI and multimedia audio
- Supports Advantech's WISE-PaaS/RMM remote management software

1024 x 768

Above 75%

5-wire analog resistive

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

Front panel: IP65

Linearity

36 million touches at single point

10~95% RH @ 40 °C, non-condensing

16.2M

400

Introduction

The TPC-1582H touch panel computer is equipped with a 15" XGA TFT LCD, low-power 4th Gen Intel® Core™ i3 1.7 GHz processor, and 4 GB DDR3L SDRAM to deliver highperformance computing in a compact, fanless system. To enhance the system's durability, TPC-1582H 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-1582H 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 .
- Certification
- **Cooling System**
- Enclosure
- Mount Options
- **OS Support**
- Power Consumption
- Power Input
- Watchdog Timer
- Weight (Net)

System Hardware

- CPU
- Chipset
- Memory
- LAN
- **Expansion Slots**

Storage

- I/0
- **LCD Display**
- Display Type
- Display Size

- BSMI, CCC, CE, FCC Class A, UL Fanless design Dimensions (W x H x D) 383 x 307 x 78.5 mm (15.08 x 12.09 x 3.09 in) Front bezel: Die cast aluminum alloy Back housing: PC/ABS resin Desktop, Wall or Panel Mount
 - Microsoft® Windows WES7 (32/64-bit), WES8 (64-bit), Windows 7 (32/64-bit), Windows 8 (64-bit), Linux Kernel 3.x, Windows 10 IoT Enterprise LTSB
 - 18W typical, 60W max. (without add-on card)
 - $24V_{DC} \pm 20\%$

AMI UEFI

1 ~ 255 sec (system) 5.5 kg (12.13 lbs)

- 4th Generation Intel Core i3-4010U 1.7 GHz
- Lynx Point-LP
- 4 GB DDR3L 1600 MHz SODIMM SDRAM
- 2 x 10/100/1000BASE-T (1 x supports iAMT) 1 x half-size PCIe, 1 x full-size mini PCIe
- 1 x CFast
 - 1 x 2.5" SATA SSD
 - 1 x mSATA (via mini PCIe)
 - 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)
- XGA TFT LED LCD
- 15

- Max. Resolution
- Max. Colors
- Luminance cd/m²
- Viewing Angle (H/V°)
- 160/140 50,000 hr **Backlight Life**
- **Contrast Ratio** 700:1

Touchscreen

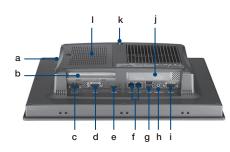
- Lifespan
- **Light Transmission**
- Resolution

Environment

Type

- Humidity
- Ingress Protection
- **Operating Temperature**
- **Storage Temperature**
- Vibration Protection
- With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

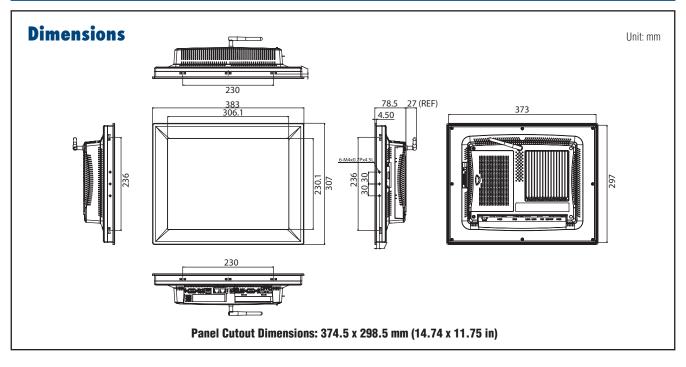
Rear View



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



TPC-1582H



Ordering Information

TPC-1582H-433BE 15" XGA Panel PC, Intel i3-4010U, 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 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 mPCle, DB37
- PCM-26D2CA-AE 2-Port Isolated CANBus mPCle, CANOpen, DB9
- PCM-24R1TP-AE 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45 WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size
- PCM-24S2WF-AE
- mPCle, 2-port SMA PCM-26R2PN-MAE
 - 2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45, Master

- 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 lloT 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.