TPC-1582H

15" XGA TFT LED LCD 4th. Gen. Intel® **Core™ i3 Touch Panel Computer**







Features

- Industrial 15" XGA TFT LCD with 50K Lifetime LED Backlight
- Intel 4th Generation Core i3 1.7GHz with 4GB DDR3L SDRAM
- Compact Fanless Embedded System with Al Alloy Front Bezel
- IP65 Approved Front Protection & Panel Mounting
- More Durable 5-wire Resistive Touch Screen
- PCle and Mini PCle Expansion Support
- Diverse system IO and Isolated Digital IO by iDoor Technology
- Supports Fieldbus Protocol by iDoor Technology
- 3G/GPS/GPRS/WiFi Communication by iDoor Technology
- Supports MRAM by iDoor Technology
- Chassis Grounding Protection
- HDMI and Audio Multimedia Support
- Support Advantech SusiAccess Remote Device Management Software

Introduction

The TPC-1582H touch panel computer with a 15" XGA LCD, low power embedded Intel 4th Generation Core i3 1.7GHz processor and 4GB DDR3L SDRAM provides the high computing performance in a compact fanless system. To enhance its durability, the TPC-1582H is designed with IP65 front protection, die-cast Al Alloy front bezel and 5-wire resistive touch. It also includes PCIe slot and Mini-pcie slots to extend the functionality and meet a variety of automation applications needs. Through the Mini-PCIe slot, Advantech iDoor technology can provide more I/O connectors, Isolated Digital IO, the Fieldbus Protocol, 3G/GPS/GPRS/WiFi Communication and MRAM. A 2nd monitor and speaker can be attached via the integrated HDMI and Audio port.

The pre-loaded SusiAccess is a smart, unique and ready-to-use remote device management software for you to centralize monitoring and managing of remote embedded devices in real-time. You can focus more on your own applications and let SusiAccess do the rest - configure systems, monitor device health, and recover from any system failures. It's cloudbased and provides on-demand software services so you can easily download and upgrade applications when you need.

Specifications

General

BIOS

Certification BSMI, CCC, CE, FCC Class A, UL

Cooling System Fanless design

Dimensions (W x H x D) 383 x 307 x 78.5 mm (15.08" x 12.09" x 3.09")

Enclosure Front bezel: Die-cast Aluminum alloy Back housing: PC/ABS Resin Mounting Desktop, Wall or Panel Mount

Microsoft® Windows WES7 32bit/64bit /WES8 64bit / OS Support Windows 7 32bit/64bit / Windows 8 64bit Linux Kernel

18W Typical, 60W Max. (Without Add-on card) Power Consumption

 $24V_{DC} \pm 20\%$ **Power Input** 1 ~ 255 sec (system)

Watchdog Timer Weight (Net) 5.5 kg (12.13 lbs)

System Hardware

- CPU Intel 4th Generation Core i3-4010U 1.7GHz

Chipset Lynx Point-LP

4GB DDR3L 1600MHz SO-DIMM SDRAM Memory LAN 10/100/1000 Base-T x 2 (one port supports iAMT)

Expansion Slots Half-size PCI-E and Full-size Mini PCI-E Storage CFast slot x 1

2.5" SATA SSD slot x 1 mSATA slot x 1 (via Mini PCle) I/0 RS-232 x 1, RS-232/422/485 x 1 USB 3.0 x 2. HDMI 1.4 x 1

Audio Line out x 1, USB 2.0 x 1 (optional)

Audio MIC x 1 (optional)

LCD Display

Display Type XGA TFT LED LCD

Display Size

Max. Resolution 1024 x 768 Max Colors 16.2 M Luminance cd/m² 400 Viewing Angle (H/V°) 160/140 **Backlight Life** 50,000 hrs

Touchscreen

Contrast Ratio

Lifesnan 36 million touches at single point **Light Transmission** Above 75%

700.1

Resolution Linearity

Type 5-wire, analog resistive

Environment

Humidity

Ingress Protection Operating Temperature

Storage Temperature

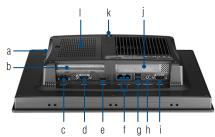
Vibration Protection

0 ~ 55°C (32 ~ 131°F) -20 ~ 60°C (-4 ~ 140°F) With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

Front panel: IP65

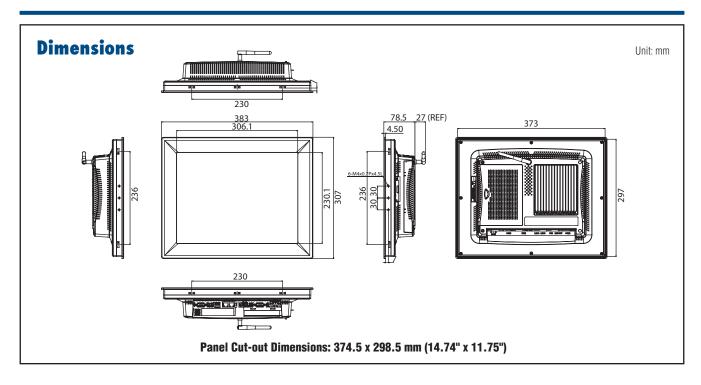
10 ~ 95% RH @ 40°C, non-condensing

Rear View



- a. CFast b. PCI-E Slot
- c. 24V_{DC} Power
- d. COM (RS-232)
- e. HDMI f. LAN
- g. USB3.0 h. Audio Line Out
- COM (RS-232/422/485)
- k. SMA Connector for Antenna 2.5" SATA SSD Slot and

Mini-PCle Slot



Ordering Information

■ TPC-1582H-433AE 15" XGA Panel PC, Intel i3-4010U, 4GB, iDoor, PCle

Accessories

PWR-248-AE 150W DC 24V/6.25A Output Power Supply

1702002600 Power Cable US Plug 1.8 M 1702002605 Power Cable EU Plug 1.8 M 1702031801 Power Cable UK Plug 1.8 M

Power Cable China/Australia Plug 1.8 M
TPC VESA Mounting Kit from 10" to 17" TPC
TPC Stand kit from 10" to 17" TPC
802.11bgn RTL8188EE 1T1R, Half-size Mini-PCle (also need 1700000596 TPC-1000H-WMKE TPC-1000H-SMKE

EWM-W151H01E 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

Wireless Antenna AN2400-5901RS R/P SMA.M9dB 1750003418

Automation S/W & Embedded O/S

2070013102 TPC-xx82 WS7P x64 MUI Image v4.12 B005 968WEXP003X PanelExpress V2.0 300 tags S/W license 968WEXP015X PanelExpress V2.0 1500 tags S/W license 968WEXP050X PanelExpress V2.0 5000 tags S/W license 968WFXP2USB PanelExpress V2.0 S/W USB dongle

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 1-Port Gigabit Ethernet, Intel® 82574L, mPCle, RJ45 PCM-24R1TP-AE WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCle, PCM-24S2WF-AE 2-port SMA

1-Port Hilscher netX100 FieldBus mPCle. PROFIBUS, DB9. PCM-26D1DB-MAE Master

■ PCM-26R2PN-MAE 2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45,

PCM-26R2EC-MAE 2-Port Hilscher netX100 FieldBus mPCle, EtherCAT, RJ45, Master

PCM-26R2FI-MAF 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

Application bottmate	
SUSIÂCCESS	Version: V2.1 or above An innovative remote device management software, allowing efficient remote monitoring, quick recovery & backup, and real-time remote configuration, to create a more intelligent and interconnected embedded computing solution.
WebAccess	Version: V7.1 or above WebAccess, as the core of Advantech's IoT solution, is full web browser-based software package for HMI and SCADA software. All HMI and SCADA software features including: Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard web browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical domain applications can easily be integrated.
PANELEXPRESS Designed for Convenience	Version V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, realizes the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express software provides the best economic and express solution for data intensive high-end HMI applications.
Webop	Version V2.0.3.8 or above An easy to use integrated development tool featuring solution-oriented screen objects, high-end graphics, Windows fonts for multi-language applications. WebOP runtime, a part of WebOP Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, and sub-second screen switching.