# **TPC-1581WP**

## 15.6" WXGA TFT LED LCD 4th. Gen. Intel® Core™ i3 Multi-Touch Panel **Computer**



#### **Features**

- Industrial 15.6 HD TFT LCD with 50K Lifetime LED Backlight
- Intel 4th Generation Core i3-4010LL with 4GB DDR3L SDRAM
- 16:9 Wide Screen with PCT Multi-Touch
- IP66 Approved Front Protection & Panel Mounting
- Built-in Intelligent Home key and i Key for Intuitive UI
- Front LED Indicator to Show Operating Status
- 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
- Anti-scratch surface: 7H hardness

# SUSIÂCCESS ÍK♦¥ ÍD♦• € @ C € FCC ( ) Introduction

With growing up in Multi-Touch technology, the TPC-1581WP features Intel 4th Generation Core i3-4010U 1.7GHz processor with 4GB DDR3L SDRAM provides the high computing performance. To enhance reliability and durability, built-in 7H hardness anti-scratch surface on high resolution 15.6" HD display with Multi-Touch in 16:9 format. Through the Mini-PCle 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.

## **Specifications**

#### General

BIOS AMI UEFI

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

 Cooling System Fanless design

Dimensions (W x H x D) 419.7 x 269 x 56.7 mm (16.52" x 10.59" 2.23")

Enclosure Front bezel: Die-cast Aluminum alloy

Back housing: PC/ABS Resin

- Mounting Panel Mount

Microsoft® Windows WES7 32bit/64bit /WES8 64bit / OS Support

Windows 7 32bit/64bit / Windows 8 64bit/Linux Kernel

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

 Power Input  $24V_{DC} \pm 20\%$  Watchdog Timer 1 ~ 255 sec (system) Weight (Net) 6 kg (13.22 lbs)

#### **System Hardware**

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

Lvnx Point-LP Chipset

Memory 4GB DDR3L 1600MHz SO-DIMM SDRAM

LAN 10/100/1000 Base-T x 2 Expansion Slots Full-size Mini PCI-E Storage CFast slot x 1

mSATA slot x 1 (via Mini PCle slot, can't be used

simultaneously with iDoor)

I/O RS-232/422/485 x 1, RS-232 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)

2.5" SATA SSD slot x 1

#### **LCD Display**

**Display Type** WXGA TFT LED LCD

Display Size 15.6 Max. Resolution 1366 x 768 Max. Colors 16.7M Luminance cd/m<sup>2</sup> 300 Viewing Angle (H/V°) 170/160 **Backlight Life** 50,000 hrs Contrast Ratio 500:1

#### Touchscreen

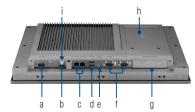
 Light Transmission ≥88% Resolution 2048 x 2048 dot Type Projected capacitive

#### **Environment**

Humidity 10 ~ 95% RH @ 40°C, non-condensing

Ingress Protection Front panel: IP66 **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. 24V<sub>DC</sub> Power b. HDMI
- c GbF
- d. USB3.0
- e. Audio Line out
- COM Port RS-232/422/485. RS-232
- g. Expansion I/O (iDoor)
- h. 2.5" SATA SSD, CFast and Mini PCle Slot
- i. SMA Connector for Antenna

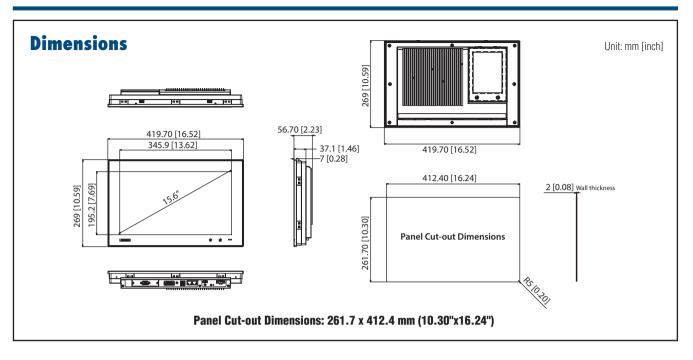
ADVANTECH

**Automation Panels** 

Last updated : 5-May-2015

All product specifications are subject to change without notice www.ipc2u.ru www.ipc2u.de www.sovio.com

Date: 08/2015 Rev.01



## **Ordering Information**

TPC-1581WP-433AF

15.6" HD Multi-Touch Panel PC. Intel i3-4010U. 4GB. iDnnr

### Accessories

PWR-248-AF

1702002600 1702002605 1702031801

170000596 EWM-W151H01E

9656EWMG00E 1750000318

1750003222 1750003418 150W DC 24V/6.25A Output Power Supply (High power consumption expansion card required, e.g. PoE)

Power Cable US Plug 1.8 M Power cable EU Plug 1.8M Power cable UK Plug 1.8M

Power Cable China/Australia Plug 1.8 M 802.11bgn RTL8188EE 1T1R, Half-size Mini-PCle (also need 9656EWMG00E)

Half-size miniPCle to Full-size miniPCle bracket set EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384

802.11b/g 5dBi Dipole Antenna Wireless Antenna AN2400-5901RS R/P SMA.M9dB

## Automation S/W & Embedded O/S

2070013487 968WEXP003X

968WEXP015X 968WEXP050X 968WFXP2USB

TPC-xx81WP WS7P x64 MUI Image v4.12 B003 PanelExpress V2.0 300 tags S/W license PanelExpress V2.0 1500 tags S/W license PanelExpress V2.0 5000 tags S/W license PanelExpress V2.0 S/W USB dongle

## iDoor Modules

PCM-24D2R4-AE

PCM-27D24DI-AE PCM-26D2CA-AE

PCM-24R1TP-AE PCM-24S2WF-AE

PCM-26D1DR-MAF

PCM-26R2PN-MAE

PCM-26R2EC-MAE

PCM-26R2EI-MAE

PCM-26R2S3-MAE

2-Port Isolated RS-422/485 mPCle, DB9

24-Channel Isolated Digital I/O w/ counter mPCle, DB37

2-Port Isolated CANBus mPCle, CANOpen, DB9

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

1-Port Hilscher netX100 FieldBus mPCle, PROFIBUS, DB9, Master 2-Port Hilscher netX100 FieldBus mPCle, PROFINET, RJ45.

Master 2-Port Hilscher netX100 FieldBus mPCle, EtherCAT, RJ45.

Master 2-Port Hilscher netX100 FieldBus mPCle, EtherNet/IP, RJ45, Master

2-Port Hilscher netX100 FieldBus mPCle, Sercos III, RJ45, Master

# **Application Software**

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.

WebAcc ss

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.

Panel Express

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.

Online Download www.advantech.com/products

Date: 08/2015 Rev.01



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