# **TPC-1581WP**

#### 15.6 WXGA TFT LED LCD Intel® 4th **Generation Core i3 Multi-Touch Panel Computer**



#### **Features**

- Industrial 15.6 HD TFT LCD with 50K Lifetime LED Backlight
- Intel 4th Generation Core i3-4010U 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

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Anti-scratch surface: 7H hardness 

#### 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-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.

### **Specifications**

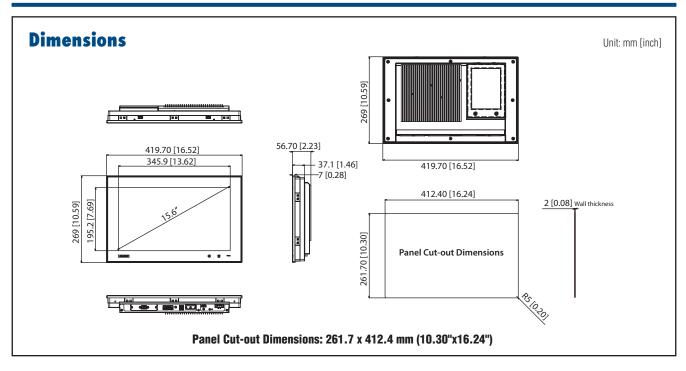
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General		LCD Display	
<ul> <li>BIOS</li> <li>Certification</li> <li>Cooling System</li> <li>Dimensions (W x H x D)</li> <li>Enclosure</li> <li>Mounting</li> <li>OS Support</li> </ul>	AMI UEFI BSMI, CCC, CE, FCC Class A, UL Fanless design 419.7 x 269 x 56.7 mm (16.52" x 10.59" 2.23") Front bezel: Die-cast Aluminum alloy Back housing: PC/ABS Resin Panel Mount Microsoft® Windows WES7 32bit/64bit /WES8 64bit /	<ul> <li>Display Type</li> <li>Display Size</li> <li>Max. Resolution</li> <li>Max. Colors</li> <li>Luminance cd/m<sup>2</sup></li> <li>Viewing Angle (H/V°)</li> <li>Backlight Life</li> <li>Contrast Ratio</li> </ul>	WXGA TFT LED LCD 15.6 1366 x 768 16.7M 300 170/160 50,000 hrs 500:1
	Windows 7 32bit/64bit / Windows 8 64bit/Linux Kernel 3.x	Touchscreen	
<ul> <li>Power Consumption</li> <li>Power Input</li> <li>Watchdog Timer</li> <li>Weight (Net)</li> </ul>	18W Typical, 60W Max. (Without Add-on card) 24V <sub>Dc</sub> +/- 20% 1 ~ 255 sec (system) 6 kg (13.22 lbs)	<ul> <li>Light Transmission</li> <li>Resolution</li> <li>Type</li> </ul>	≥88% 2048 x 2048 dot Projected capacitive
System Hardware		<ul> <li>Humidity</li> </ul>	10 ~ 95% RH @ 40°C, non-condensing
<ul> <li>CPU</li> <li>Chipset</li> <li>Memory</li> <li>LAN</li> <li>Expansion Slots</li> </ul>	Intel 4 <sup>th</sup> Generation Core i3-4010U 1.7GHz Lynx Point-LP 4GB DDR3L 1600MHz SO-DIMM SDRAM 10/100/1000 Base-T x 2 Full-size Mini PCI-E	<ul> <li>Ingress Protection</li> <li>Operating Temperature</li> <li>Storage Temperature</li> <li>Vibration Protection</li> </ul>	Front panel: IP66 0 ~ 55°C (32 ~ 131°F) -20 ~ 60°C (-4 ~ 140°F) With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)
<ul> <li>Storage</li> <li>I/O</li> </ul>	CFast slot x 1 2.5" SATA SSD slot x 1 mSATA slot x 1 (via Mini PCle slot, can't be used simultaneously with iDoor) 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)	Rear View	h a. 24V <sub>DC</sub> Power b. HDMI c. GbE d. USB3.0 e. Audio Line our f. COM Port RS-

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  - -232/422/485. RS-232
- g. Expansion I/O (iDoor)
- h. 2.5" SATA SSD, CFast and Mini PCIe Slot
- i. SMA Connector for Antenna

#### **TPC-1581WP**



#### **Ordering Information**

- TPC-1581WP-433AE

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

802.11bgn RTL8188EE 1T1R, Half-size Mini-PCle

15.6" HD Multi-Touch Panel PC, Intel i3-4010U, 4GB, iDoor

Power Cable China/Australia Plug 1.8 M

#### Accessories

- PWR-248-AE
- **1702002600**
- 1702002605
- Power cable EU Plug 1.8M • 1702031801 Power cable UK Plug 1.8M
- 1700000596
- EWM-W151H01E
- 9656EWMG00E Half-size miniPCle to Full-size miniPCle bracket set EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384
- 1750000318
- 1750003222 802.11b/g 5dBi Dipole Antenna
- 1750003418 Wireless Antenna AN2400-5901RS R/P SMA.M9dB

Power Cable US Plug 1.8 M

(also need 9656EWMG00E)

### **Automation Sofware**

- 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 PanelExpress V2.0 S/W USB dongle
- 968WEXP2USB

#### **iDoor Modules**

- PCM-24D2R2-AE OXPCIe-952 UART, Isolated RS-232, DB9 x 2
- PCM-24D2R4-AE PCM-24R1TP-AE
- OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2 Intel 82574L. Ethernet, PTP. RJ45 x 1
- PCM-24S2WF-AE
- PCM-24S24G-AE
- 802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462 Full-size mPCle, LTE bands 1, 3, 5, 7, 8, 20, (for
- Europe, PAC) PCM-26D1PB-AE Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
- PCM-26D2CA-AE SJA1000 CANBus, CANOpen, DB9 x 2
- PCM-27D24DI-AE Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1

## **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.
Version : V7.1 or above WebAccess, as the core of Advantech's IoT solution, is web browser-based software package for HMI and SCA software. All HMI and SCADA software features includ Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs, are available in a standard w browser. WebAccess is built around the latest internet technologies. With its open architecture, vertical doma applications can easily be integrated.	
PANELEXPRESS Section 2107 Conversion : V2.0.3.8 or above Panel Express, a windows based HMI mini SCADA, reali the cross platform flexibility offered by WebOP Designer to switch hardware for the consideration of cost and performance become an easy job. Panel Express softwar 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.