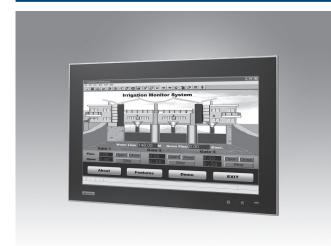
TPC-1881WP

18.5" HD TFT LED LCD Multi-Touch Panel Computer with 4th Gen. Intel[®] Core™ i3/ **i7 Processor**



Features

- Industrial-grade 18.5" HD TFT LCD with 50K lifetime and LED backlight
- 4th Gen Intel[®] Core[™] i3-4010U/i7-4650U with 4 GB/8 GB DDR3L SDRAM
- 16:9 widescreen display with PCAP multi-touch
- IP66-rated front panel and panel mount
- Built-in intelligent home key and iKey for intuitive operation
- Front-facing LED indicators show operating status
- 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 battery backup MRAM via iDoor technology
- Chassis grounding protection
- HDMI and audio multimedia support
- Anti-scratch surface with 7H hardness

Introduction

The TPC-1881WP features a 4th Generation Intel Core i3-4010U/i7-4650U 1.7 GHz processor with 4 GB/8 GB DDR3L SDRAM to support high-performance computing. For enhanced durability and reliability, the system's 18.5" HD TFT LCD features an anti-scratch surface with 7H hardness, 16:9 widescreen aspect ratio, and multi-touch control. With the inclusion of Advantech's iDoor technology system via the mini PCIe slot, the system can be equipped with additional I/O, isolated digital I/O, fieldbus protocols, 3G/GPS/GPRS/Wi-Fi communication, and MRAM. Moreover, the integrated HDMI and audio ports allow a secondary monitor and speakers to be attached for increased functionality.

Specifications

General

uenerai		LUD DISPIAY
BIOS	AMI UEFI	 Display Type
 Certification 	BSMI, CCC, CE, FCC Class A, UL	 Display Size
 Cooling System 	Fanless design	Max. Resolut
Dimensions (W x H x E) 488 x 309 x 56.7 mm (19.21 x 12.17 x 2.23 in)	Max. Colors
 Enclosure 	Front bezel: Die cast aluminum alloy	 Luminance co
	Back housing: PC/ABS resin	 Viewing Angl
 Mounting 	Panel Mount	 Backlight Life
 OS Support 	Microsoft [®] Windows WES7 (32/64-bit), WE8S (64-bit),	 Contrast Ration
	Windows 7 (32/64-bit), Windows 8 (64-bit), Ubuntu	
	14.04.2 LTS, Windows 10 IoT Enterprise LTSB	Touchscreen
Power Consumption	28W typical, 60W max. (without add-on card)	Light Transmi
Power Input	24V _{DC} +/- 20%	 Resolution
 Watchdog Timer 	1 ~ 255 sec (system)	Type
 Weight (Net) 	7 kg (15.44 lbs)	
- · · ·		Environment
System Hardware		 Humidity
- CPU	4th Gen Intel Core i3-4010U/ i7-4650U 1.7 GHz	Ingress Prote
 Chipset 	Lynx Point-LP	 Operating Ter
 Memory 	4 GB DDR3L 1600 MHz SODIMM SDRAM	 Storage Temp
- LAN	2 x 10/100/1000BASE-T (1 x supports iAMT)	 Vibration Pro
Expansion Slots	1 x Full-size mini PCle	
 Storage 	1 x CFast	
5	1 x 2.5" SATA SSD	Rear Vie
= I/O	1 x RS-232, 1 x RS-232/422/485	i

I CD Dienlay

- HD TFT LED LCD 18.5
- ution
- cd/m²
- gle (H/V°) 170/160
- fe 50.000 hr 500:1
- tio
 - nission
- 4096 x 4096 dot Projected capacitive

Front panel: IP66

>88%

1366 x 768

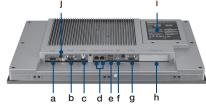
16.7M

300

- ection
 - emperature 0 ~ 55 °C (32 ~ 131 °F) -20 ~ 60 °C (-4 ~ 140 °F)
 - perature otection
 - (Operating, random vibration)

10~95% RH @ 40°C, non-condensing

ew



- a. 24V_{DC} Power b. COM port RS-232
- c. HDMI
- d. GbE
- e. USB 3.0
- f. Audio line out
- g. COM port RS-232/422/485 h. Expansion I/O (iDoor)
- i. 2.5" SATA SSD and mini
- PCIe slots j. SMA connector for antenna

High-Performance Control Panels AD\ANTECH

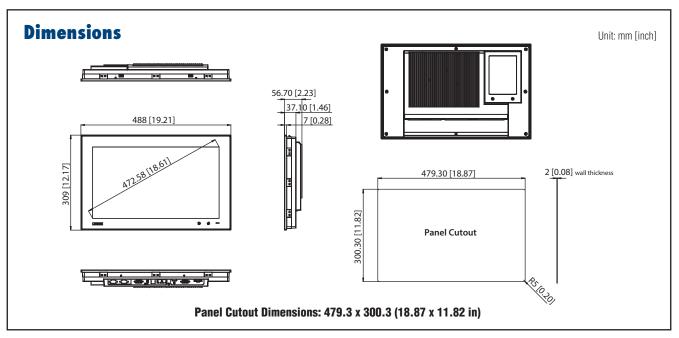
2 x USB 3.0, 1 x HDMI 1.4

1 x Audio mic in (optional)

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

With HDD: 1 Grms (5 ~ 500 Hz)

TPC-1881WP



Ordering Information

- TPC-1881WP-433AE 18.5" HD Multi-Touch Panel PC, Intel i3-4010U, 4GB,
- TPC-1881WP-473AE
- iDoor
- 18.5" HD Multi-Touch Panel PC, Intel i7-4650U, 4GB, iDoor

Power cable UK Plug 1.8M

Power Cable China/Australia Plug 1.8 M 802.11bgn RTL8188EE 1T1R, Half-size mini PCIe

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

- TPC-1881WR-433AE 18.5" HD Resistive Touch Panel PC. Intel i3-4010U.
- 4GB, iDoor TPC-1881WPH-453AE 18.5" widescreen PCT with i5, 4G RAM, C1D2

Optional Accessories

- 96PSA-A150W24T2 Adapter 100-240V 150W 24V Power Cable US Plug 1.8 M
- 1702002600 Power cable EU Plug 1.8M
- 1702002605
- 1702031801
- 1700000596-11 EWM-W151H01E
- (also need 9656EWMG00E) 9656EWMG00E
 - Half-size miniPCIe to Full-size miniPCIe bracket set 1750000318 EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384 802.11b/g 5dBi Dipole Antenna
- 1750003222
- 1750003418

Embedded OS

- 2070013889 TPC-xx81WP WS7P x86 MUI Image v4.13
- TPC-xx81WP WS7P x64 MUI Image v4.12 TPC-xx81WP WS7P x64 MUI Image v4.12 TPC-1881WR WS7P X64 MUI Image V4.14 TPC-1881WP-433AE WIN10ENT LISB Image 2070013489
- 2070014320
- 2070014920
- 2070014921 TPC-1881WP-473AE WIN10ENT LTSB Image

S/W Bundle Offering

 WA-CT1881W-3RHE5AE TPC-1881WP-433AE, Control RTE & Visua., 128G SSD, 2MB MRAM, WES7P

iDoor Modules

- PCM-2300MR-AE
- PCM-26D1PB-AE
- Hilscher netX100 FieldBus, ProfiBus, DB9 x 1 PCM-26D2CA-AE
 - SJA1000 CANBus, CANOpen, DB9 x 1

MR4A16B, 2MByte

OXPCIe-952 UART. Isolated RS-422/485. DB9 x 2 PCM-24D2R4-AE

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries. Please contact Advantech for certificate compliance.

- PCM-24D2R2-AE
 - OXPCIe-952 UART, Isolated RS-232, DB9 x 2 OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1
 - PCM-24D4R4-AE PCM-24D4R2-AE
 - OXPCIe-954, UART, Non-Isolated RS-232, DB37 x 1
 - PCM-27D24DI-AE Digital I/O, 16DI / 8DO, DB37 x 1

Application Software

WebAccess/SCADA	Advantech WebAccess/SCADA is a 100% browser-based IIoT 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 widedts, 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.