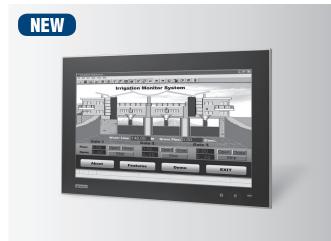
TPC-1881WP

18.5 HD TFT LED LCD Intel® 4th Generation Core i3/ i7 Multi-Touch Panel Computer



Features

- Industrial 18.5 HD TFT LCD with 50K Lifetime LED Backlight
- Intel 4th Generation Core i3-4010U/ i7-4650U with 4GB/8GB 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 Battery-backup MRAM by iDoor Technology
- Chassis Grounding Protection
- HDMI and Audio Multimedia Support
- Anti-scratch surface: 7H hardness

Introduction

With growing up in Multi-Touch technology, the TPC-1881WP features Intel 4th Generation Core i3-4010U/ i7-4650U 1.7GHz processor with 4GB/8GB DDR3L SDRAM provides the high computing performance. To enhance reliability and durability, built-in 7H hardness Anti-scrath surface on high resolution 18.5" 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 Battery-backup MRAM. A 2nd monitor and speaker can be attached via the integrated HDMI and Audio port.

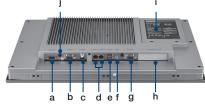
Specifications

General

General		LCD Display	
BIOS	AMI UEFI	 Display Type 	HD TFT LED LCD
 Certification 	BSMI, CCC, CE, FCC Class A, UL	 Display Size 	18.5
Cooling System	Fanless design	 Max. Resolution 	1366 x 768
Dimensions (W x H x	D) 488 x 309 x 56.7 mm (19.21" x 12.17" x 2.23")	Max. Colors	16.7M
 Enclosure 	Front bezel: Die-cast Aluminum alloy	Luminance cd/m ²	300
	Back housing: PC/ABS Resin	 Viewing Angle (H/V°) 	170/160
 Mounting 	Panel Mount	 Backlight Life 	50,000 hrs
 OS Support 	Microsoft [®] Windows WES7 32bit/64bit /WE8S 64bit/	 Contrast Ratio 	500:1
	Windows 7 32bit/64bit / Windows 8 64bit/Ubuntu		
	14.04.2 LTS/Windows 10 IoT Enterprise LTSB	Touchscreen	
Power Consumption	28W Typical, 60W Max. (Without Add-on card)	 Light Transmission 	≥88%
 Power Input 	24V _{DC} +/- 20%	 Resolution 	4096 x 4096 dot
 Watchdog Timer 	1 ~ 255 sec (system)	 Type 	Projected capacitiv
 Weight (Net) 	7kg (15.44 lbs)	F	
		Environment	
System Hardware		 Humidity 	10 ~ 95% RH @ 40
CPU	Intel 4th Generation Core i7-4650U 1.7GHz	Ingress Protection	Front panel: IP66
	Intel 4th Generation Core i3-4010U 1.7GHz	 Operating Temperature 	0 ~ 55°C (32 ~ 131
 Chipset 	Lynx Point-LP	 Storage Temperature 	-20 ~ 60°C (-4 ~ 1
 Memory 	4GB DDR3L 1600MHz SO-DIMM SDRAM	 Vibration Protection 	With HDD: 1 Grms
- LAN	10/100/1000 Base-T x 2 (one port supports iAMT)		(Operating, random
Expansion Slots	Full-size Mini PCI-E		
 Storage 	CFast slot x 1	Rear View	
	2.5" SATA SSD slot x 1	i	i
 I/O 	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)		

I CD Dienlay

- C (32 ~ 131°F) °C (-4 ~ 140°F)
 - D: 1 Grms (5 ~ 500 Hz) ng, random vibration)

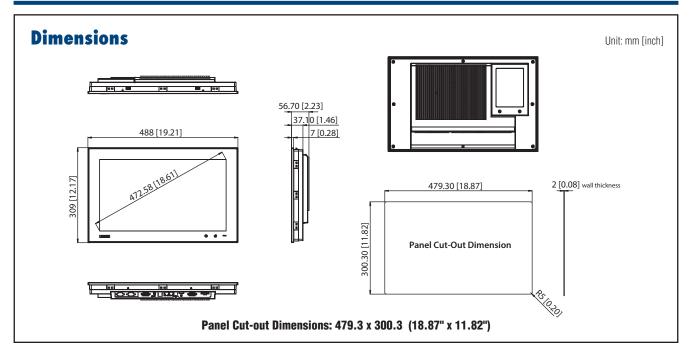


ć	a. 24Vpc Power
l	b. COM Port RS-232

- 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, CFast and
- Mini PCIe Slot j. SMA Connector for Antenna

d capacitive % RH @ 40°C, non-condensing

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 TPC-1881WR-433AE 18.5" HD Resistive Touch Panel PC, Intel i3-4010U, 4GB, iDoor

Power cable EU Plug 1.8M

Power cable UK Plug 1.8M

(also need 9656EWMG00E)

802.11b/g 5dBi Dipole Antenna

Power Cable China/Australia Plug 1.8 M

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

Half-size miniPCle to Full-size miniPCle bracket set

EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384

Optional Accessories

- 96PSA-A150W24T2 Adapter 100-240V 150W 24V Power Cable US Plug 1.8 M
- 1702002600
- 1702002605
- 1702031801
- 1700000596
- EWM-W151H01E
- 9656EWMG00E
- 1750000318
- 1750003222
- 1750003418
 - Wireless Antenna AN2400-5901RS R/P SMA.M9dB

Embedded O/S

2070013889 TPC-xx81WP WS7P x86 MUI Image v4.13 = 2070013489

TPC-xx81WP WS7P x64 MUI Image v4.12

S/W Bundle Offering

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

MR4A16B, 2MByte

iDoor Modules

- PCM-2300MR-AE
- PCM-26D1PB-AE
- Hilscher netX100 FieldBus, ProfiBus, DB9 x 1 PCM-26D2CA-AE SJA1000 CANBus, CANOpen, DB9 x 1
- OXPCIe-952 UART, Isolated RS-422/485, DB9 x 2 PCM-24D2R4-AE
- PCM-24D2R2-AE OXPCIe-952 UART. Isolated RS-232. DB9 x 2
- PCM-24D4R4-AE
- OXPCIe-954 UART, Non-Isolated RS-422/485, DB37 x 1

- PCM-24D4R2-AE PCM-27D24DI-AE
- OXPCIe-954, UART, Non-Isolated RS-232, DB37 x 1 Digital I/O, 16DI / 8DO, DB37 x 1

Application Software

WebAccess/SCADA	Advantech WebAccess is a 100% web based SCADA (Supervisory Control And Data Acquisition) software and it acts as an IIoT Platform providing open interfaces for partners to develop IoT applications for different vertical markets. In addition to traditional SCADA functions, WebAccess has an intelligent Dashboard, to provide users with cross-platform, cross-browser data analysis and user interface using HTML5 technology. As well as the built-in widgets, WebAccess also provides Widget Builder to allow customers to build their own.
WebAccess/HMI	WebAccess/HMI is Human Machine Interface (HMI) software based on Microsoft's Windows operating system. It utilizes a PC's ample resources, ie speed, storage, multimedia, peripheral devices, and large screen to produce a complex human-machine interface. WebAccess/HM with its communication and monitoring ability supports more than 350 PLC communication protocols and a wide choice of screen design objects, to satisfy multiple integrations of factory automation and all-round human-machine interface operation and monitoring requirements.
CODESYS	The Codesys application-ready-package offering which includes PC-based Panel Controller with multi-touch panel, high performance Intel Core-i multi-core processor, SSD, 2MB MRAM, Microsoft Windows embedded 7 Pro and CODESYS Control Runtime & Visualization. This allows users to easily achieve an open control solution, the PC-based real-time control system, enabling real-time PLC or PLC/Softmotion control with flexible Fieldbus options such as PROFINET, EtherCAT, EtherNet/IP, CANopen, Modbus TCP/RTU and providing the on-site visualized HMI operation. The software/hardware flexibility and stability of PC-based Cabinet Controller is able to fulfill various control applications in vertical industries.