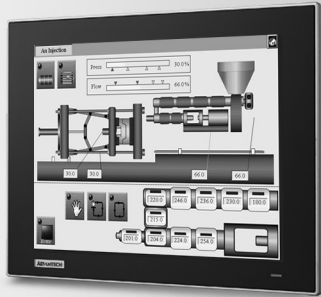


TPC-1282T

12.1" XGA TFT LED LCD 5th. Gen. Intel® Core™ i3 Touch Panel Computer

NEW



Features

- Industrial 12.1" XGA TFT LCD with 50K Lifetime LED Backlight
- Intel 5th Generation Core Processors with 4GB DDR3L SDRAM
- Compact Fanless Embedded System with Al Alloy Front Bezel
- True-flat with IP66 certified front panel protection
- More Durable 5-wire Resistive Touch Screen
- PCIe and Mini PCIe 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
- Supports Advantech SNMP Subagent
- Supports Advantech SusiAccess Remote Device Management Software

Introduction

The TPC-1282T touch panel computer with a 12.1" XGA LCD, low power embedded Intel 5th Generation Core processor and 4GB DDR3L SDRAM provides the high computing performance in a compact fanless system. To enhance its durability, the TPC-1282T is designed with IP66 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 cloud-based and provides on-demand software services so you can easily download and upgrade applications when you need.

Specifications

General

- BIOS**: AMI UEFI
- Certification**: BSMI, CCC, CE, FCC Class A, UL
- Cooling System**: Fanless design
- Dimensions (W x H x D)**: 311.8 x 238 x 77.2 mm (12.28" x 9.38" x 3.04")
- Enclosure**: Front bezel: Die-cast Aluminum alloy
Back housing: PC/ABS Resin
- Mounting**: Desktop, Wall or Panel Mount
- OS Support**: Microsoft® WES7 32bit/64bit Windows 7 32bit/64bit
Windows Embedded 8.1 Industry Pro 64bit
- Power Consumption**: 19W Typical, 60W Max. (Without Add-on card)
- Power Input**: 24V_{DC} ± 20%
- Watchdog Timer**: 1 ~ 255 sec (system)
- Weight (Net)**: 3.2 kg (7.02 lbs)

System Hardware

- CPU**: Intel 5th Generation Core i3-5010U 2.10GHz
- Chipset**: WildcatPoint-LP
- Memory**: 4GB DDR3L 1600MHz SO-DIMM SDRAM
- LAN**: 10/100/1000 Base-T x 2
- Expansion Slots**: Half-size PCI-E and Full-size Mini PCI-E
CFast slot x 1
2.5" SATA SSD slot x 1
mSATA slot x 1 (via Mini PCIe)
- Storage**: 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/O**

LCD Display

- Display Type**: XGA TFT LED LCD
- Display Size**: 12.1"
- Max. Resolution**: 1024 x 768
- Max. Colors**: 16.2 M

- Luminance cd/m²**: 600
- Viewing Angle (H/V°)**: 160/140
- Backlight Life**: 50,000 hrs
- Contrast Ratio**: 700:1

Touchscreen

- Lifespan**: 36 million touches at single point
- Light Transmission**: 81 ± 3%
- Resolution**: Linearity
- Type**: 5-wire, analog resistive

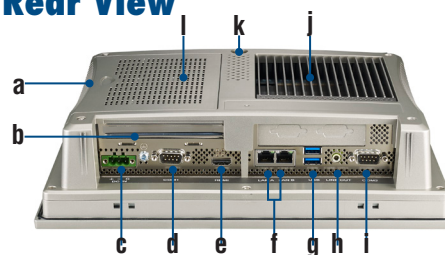
Environment

- Humidity**: 10 ~ 95% RH @ 40°C, non-condensing
- Ingress Protection**: Front panel: IP66
- Operating Temperature**: 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature**: -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection**: With HDD: 1 Grms (5 ~ 500 Hz)
(Operating, random vibration)

Ordering Information

- TPC-1282T-533AE**: 12.1" XGA Panel PC, Intel i3-50101U, 4GB, iDoor, PCIe

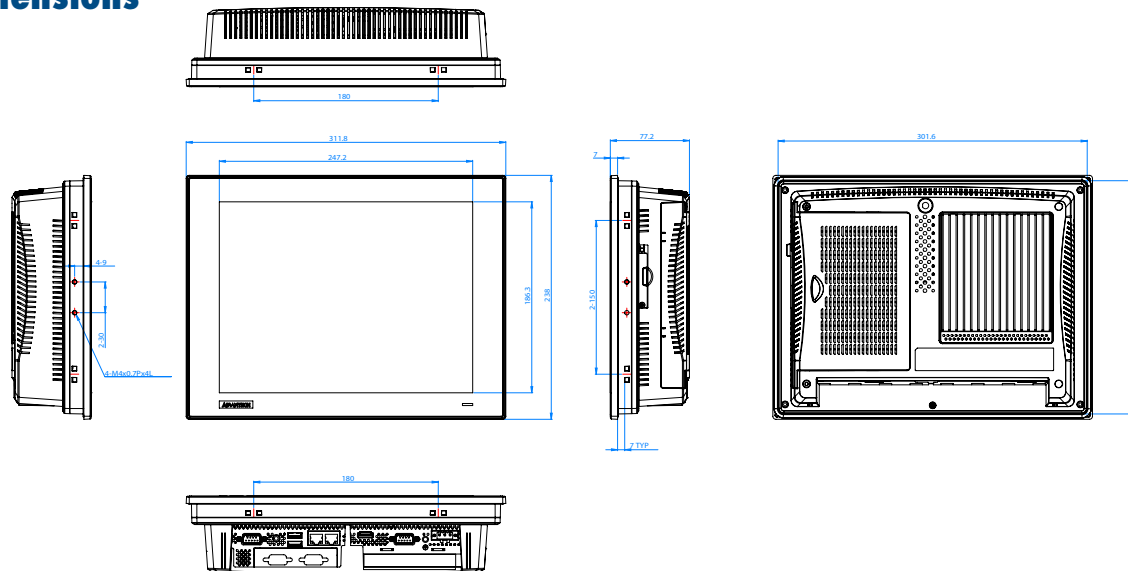
Rear View



- a. CFast
- b. PCI-E Slot
- c. 24V_{DC} Power
- d. COM1 (RS-232)
- e. HDMI
- f. LAN
- g. USB3.0
- h. Audio Line Out
- i. COM2 (RS-232/422/485)
- j. iDoor
- k. SMA Connector for Antenna
- l. 2.5" SATA SSD Slot and Mini-PCIe Slot

Dimensions

Unit: mm



Panel Cut-out Dimensions: 303 x 229 mm (11.93" x 9.02")

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
- **1700000596** Power Cable China/Australia Plug 1.8 M
- **TPC-1000H-WMKE** TPC VESA Mounting Kit from 10" to 17" TPC
- **TPC-1000H-SMKE** TPC Stand kit from 10" to 17" TPC
- **EWM-W151H01E** 802.11bgn RTL8188EE 1T1R, Half-size Mini-PCIe (also need 9656EWMG00E)
- **9656EWMG00E** Half-size miniPCIe to Full-size miniPCIe bracket set
- **1750000318** EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384
- **1750003222** 802.11b/g 5dBi Dipole Antenna
- **1750003418** Wireless Antenna AN2400-5901RS R/P SMA.M9dB

Automation S/W & Embedded O/S

- **2070013700** WS7P x86 V4.12 B001 MUI. for TPC-1282T
- **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
- **968WEXP2USB** PanelExpress V2.0 S/W USB dongle

iDoor Modules

- **PCM-24D2R4-AE** 2-Port Isolated RS-422/485 mPCIe, DB9
- **PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37
- **PCM-26D2CA-AE** 2-Port Isolated CANBus mPCIe, CANOpen, DB9
- **PCM-24R1TP-AE** 1-Port Gigabit Ethernet, Intel® 82574L, mPCIe, RJ45
- **PCM-24S2WF-AE** WiFi 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe, 2-port SMA
- **PCM-26D1DB-MAE** 1-Port Hilscher netX100 FieldBus mPCIe, PROFIBUS, DB9, Master
- **PCM-26R2PN-MAE** 2-Port Hilscher netX100 FieldBus mPCIe, PROFINET, RJ45, Master
- **PCM-26R2EC-MAE** 2-Port Hilscher netX100 FieldBus mPCIe, EtherCAT, RJ45, Master
- **PCM-26R2EI-MAE** 2-Port Hilscher netX100 FieldBus mPCIe, EtherNet/IP, RJ45, Master
- **PCM-26R2S3-MAE** 2-Port Hilscher netX100 FieldBus mPCIe, Sercos III, RJ45, Master

Application Software

	<p>Version: V2.1 or above</p> <p>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.</p>
	<p>Version: V7.1 or above</p> <p>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.</p>
	<p>Version: V2.0.3.8 or above</p> <p>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.</p>
	<p>Version: V2.0.3.8 or above</p> <p>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.</p>
	<p>Visualizing device and platform network connectivity conditions and offering easier firmware and configuration solutions to ensure stable network connections.</p>