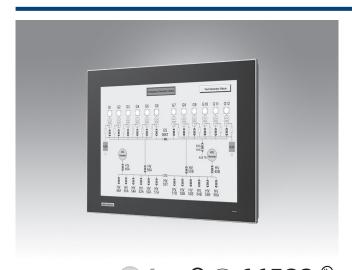
TPC-125H

12" XGA TFT LED LCD Thin-Client Terminal with Intel® Atom™ Processor and UL Class 1, Division 2



Features

- Industrial-grade 12" XGA TFT LCD with 50K lifetime and LED backlight
- Intel® Atom™ E3845 1.91 GHz quad-core processor with 4 GB DDR3L SDRAM and 64 GB SSD
- UL C1D2 certified HMI for Hazardous environments
- In-cabinet Design with True-flat touchscreen with 5-wire resistive touch control and IP66-rated front panel
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Front-facing LED indicators to show operating status
- Advantech iDoor technology and SSD/HDD bay
- Compact, fanless system with aluminum alloy front bezel and chassis grounding protection
- Supports VESA mount (100 x 100 mm)
- Hazardous Location Designation Group A, B, C, D, T4

Introduction ID++r ⊕ (C € FCC • (N) IN INTERIOR C € FCC • (N) INTERIOR C € FCC • (N) IN INTERIOR C € FCC • (N) INTERIOR C € FCC • (N) IN INTERIOR C € FCC • (N) INTERIOR C € FCC • (N)

The TPC-125H thin-client terminal is Equipped with a 12" XGA TFT LED LCD, low-power Intel® Atom™ E3845, 1.91GHz, quad-core processor, 4 GB DDR3L SDRAM and 64 GB SSD, TPC-125H delivers high-performance computing in a compact, fanless system. For enhanced durability to satisfy diverse industrial automation applications, TPC-125H supports a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F) and features a true-flat 5-wire resistive touchscreen with IP66-rated front panel, die-cast aluminum alloy front bezel, and 100 x 100 VESA mount kit. TPC-125H has been C1D2 certified for the applications in hazardous environments. Moreover, with the provision of a full-size mini PCle slot that supports mSATA signals and Advantech's iDoor technology, TPC-125H can be easily expanded to provide additional I/O ports, isolated digital I/O, fieldbus protocols, MRAM, and 3G/GPS/GPRS/Wi-Fi communication capabilities.

Specifications

General

• BIOS AMI UEFI

Certification
 BSMI, CCC, CE, FCC Class A, UL, UL C1D2

Cooling System Fanless design

Dimensions (W x H x D) 311.8 x 238 x 55.4 mm (12.28 x 9.37 x 2.18 in)

• Enclosure Front bezel: Die-cast aluminum alloy

Back housing: SECC

Mount Options
 VESA mount, Desktop/wall/panel

 OS Support Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), Windows 10 Enterprise LTSB

Power Consumption Typical 25W, 43.8W max.

Power Input
 Watchdog Timer
 1,75,564 207, 76,597 max.
 1,75,764 207, 76,597 max.

• Weight (Net) 3.12 kg (6.88 lb)

System Hardware

CPU Intel® Atom™ E3845, 1.91 GHz, quad core
 Memory 1 x SODIMM with 4 GB DDR3L SDRAM (up to 8 GB)

LAN 2 x Intel® I210; 10/100/1000 BASE-T

Expansion Slots 1 x Full-size mini PCle

All product specifications are subject to change without notice.

Storage 1 x 2.5" SATA SSD, default 64 GB SSD

1 x mSATA

■ I/O 1 x RS-232

1 x RS-232/422/485

1 x USB 3.0

3 x USB 2.0

1 x iDoor slot

LCD

Display Type
 Display Size
 Max. Resolution
 Max. Colors
 Luminance
 Viewing Angle (H/V°)
 Backlight Life
 Contrast Ratio
 XGA TFT LED LCD
 12"
 600 cd / r6
 16.2M
 16.2M
 178/178
 Bocklight Life
 170,000 hr
 1000:1

Touchscreen

• **Lifespan** 36 million touches at a single point

Light Transmission Above 75%Resolution Linearity

• Type 5-wire analog resistive

Environment

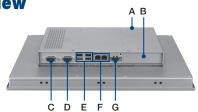
Humidity $10 \sim 95\%$ RH @ 40 °C, non-condensing

Ingress Protection IP66-rated front panel
Operating Temperature -20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature -30 ~ 70 °C (-22 ~ 158 °F)

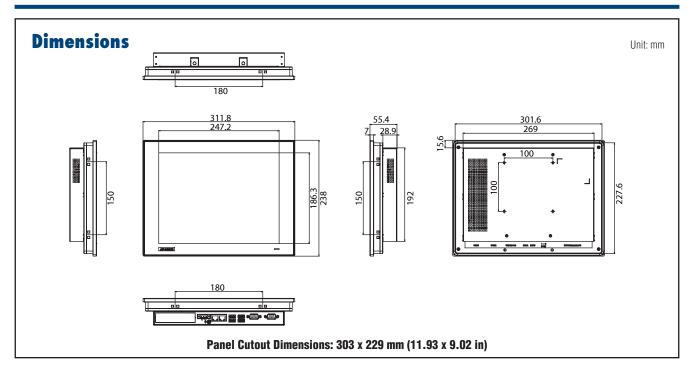
Storage Temperature
Vibration Protection

-30 ~ 70 ° C (-22 ~ 158 °F)
With SSD: 1 Grms (5 ~ 500 Hz)
(operating, random vibration)

Rear View



A. HDD/SSD bay B. iDoor slot C. RS-232 D. RS-232/422/485 E. USB 2.0 and 3.0 F. LAN (10/100/1000) G. Power input



Ordering Information

■ TPC-125H-E3BE 12" XGA panel PC with Intel® Atom™ E3845, 1.91 GHz quad-core CPU, 4 GB DDR3L SDRAM, 64 GB SSD,

and true-flat touchscreen, C1D2 certified

PCM-262R2EC-MAE

Hilscher netX100 fieldbus mPCle with EtherCAT, 2 x RJ45, Master

■ PCM-27J3AU-AE ■ PCM-29R1TX-AE 3-Port audio stereo with mPCle and 3.5-mm jack 1-Port iLink(TX) long-distance display transmitter with

Optional Accessories

■ PWR-247-DE 60 W, 24 VDC /2.5A power supply **1702002600** Power cable (US) 1.8 M **1702002605** Power cable (EU) 1.8 M

1702031801 Power cable (UK) 1.8 M

1700000596-11 Power cable (China/Australia) 1.8 M

Embedded OS

20703WE7PS0027 TPC-xx51T(B) WS7P x86 MUI Image V4.19 - 20703WE7PS0028 TPC-xx51T(B) WS7P x64 MUI Image V4.19 - 20703WX9ES0001 TPC-xx51T(B) Win10 x64 LTSC v6.04 B012 Entry (2019)

iDoor Modules (must via CTOS)

PCM-26D2CA-AE SJA1000 CANbus module with CANopen and 2 x DB9 PCM-26D1DB-MAE Hilscher netX100 fieldbus module with PROFIBUS and 1 x DB9

PCM-27D24DI-AE

Digital I/O module with 16 DI/8 DO, isolation protection, and 1 x DB37

■ PCM-24D2R4-BE OXPCIe-952 UART with isolated RS-422/485 and

2 x DB9

■ PCM-24D2R2-BE OXPCIe-952 UART with isolated RS-232 and 2 x DB9 ■ PCM-24R2GL-AE 2-Port GigaLAN Intel® i350 PCle mini card

■ PCM-24R1TP-AE Intel® 82574L, GbE, IEEE 1588 PTP, 1 x RJ45

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 widgets, 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 automation applications and HMI monitoring requirements.

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.