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
- Compact, fanless system with aluminum alloy front bezel and chassis grounding protection
- Hazardous Location Designation Group A, B, C, D, T4

Introduction

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. TPC-125H has been C1D2 certified for the applications in hazardous environments.

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 Panel Mount

■ OS Support Windows 7, Windows 10
■ Power Consumption
■ Power Input 24 VDC +/- 20%
■ Watchdog Timer 1 ~ 255 sec (system)
■ 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
 LAN 2 x Intel® 1210; 10/100/1000 BASE-T

Expansion Slots

Storage 1 x 2.5" SATA 64 GB SSD

• 1/0 1 x RS-232 1 x RS-232/422/485 1 x USB 3.0 3 x USB 2.0

LCD

Display Type
 Display Size
 Max. Resolution
 Max. Colors
 Luminance
 Viewing Angle (H/V°)
 Backlight Life
 XGA TFT LED LCD
 12"
 1024 x 768
 16.2M
 600 cd/m²
 178/178
 50,000 hr

1000:1

Touchscreen

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

Light Transmission Above 75%
 Resolution Linearity

■ **Type** 5-wire analog resistive

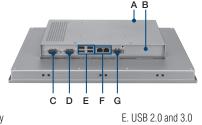
Environment

Humidity 95% RH @ 40 °C, non-condensing

Ingress Protection
 Operating Temperature
 Storage Temperature
 Vibration Protection
 IP66-rated front panel
 -20 ~ 60 ° C (-4 ~ 140 ° F)
 -30 ~ 70 ° C (-22 ~ 158 ° F)
 With SSD: 1 Grms (5 ~ 500 Hz)

(operating, random vibration)

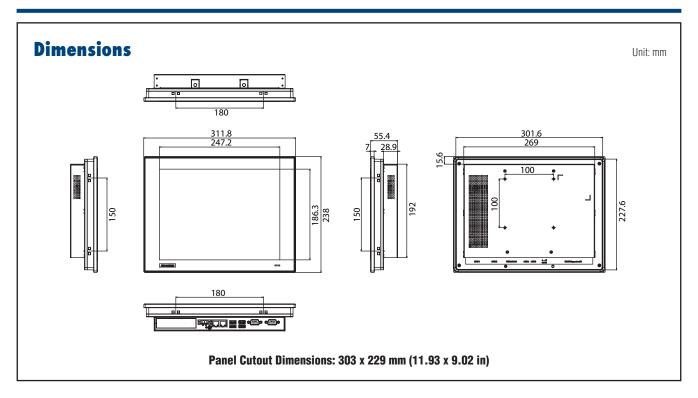
Rear View



A. HDD/SSD bay B. iDoor Slot (Not Expandable)

C.RS-232 D.RS-232/422/485 F. LAN G.Power input

Contrast Ratio



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

Embedded OS

- 20703WE7PS0027

20703WE7PS002820703WX9ES0028

TPC-xx51T(B) WS7P x86 MUI Image V4.19 TPC-xx51T(B) WS7P x64 MUI Image V4.19 Img W10 LTSC 2019 V6.05 B027 TPC-1x5H-ExBE

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

Packing List

Item	Part No.	Description	Qty
Grounding cable	1703011001-11	A Cable G-TEM 4.3 100CM C=GR/Y	1pcs
Plug-In Block	1656303100	HOUSING 5.08MM 3P 90D(M) 2ESDVM-03P	1pcs
Manual	2003T51B00	User manual SC for TPC-xx51 B 1st ed	1pcs
Warranty	2190000902	CARDBOARD-WARRANTY REV. A0	1pcs
VESA Screw	1930005204	Screw M4x10L R/S DH=6.8x2.50 + ST ZBK PL	4pcs
M-SATA&WIFI Screw	1930000198	Screw M2x4L F/S D=4.3 H=0.8 (1+) ST Ni NK	3pcs
HDD Screw	19330304A0	Screw M3*4L RF/S D=6.9 H=1.9 + ST Ni NK	4pcs
Idoor Screw	1930002161	Screw M3x4.0(10.0)L R/S D=5.3 H=2 2+ ST BZn	2pcs
HDD WASHER	1990032871S000	Transistor Washer_Safety 1T TW-39 for PPC-3100	4pcs
Clamp	1962055040	CLAMPER PPC-55 M1632611 A0	8pcs
Clamp Screw	1935042520	Screw M4x25L R/S D=8.3 H=2.5 (2+) ST BZn	8pcs
China RoHS	202KAKMC00	China rohs for AKMC model name 1st ed	1pcs

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.