TPC-1250H

12.1" SVGA TFT LED LCD Intel® Atom™ Thin Client Terminals



Features

- Industrial 12.1" SVGA TFT LCD with 50K Lifetime LED Backlight
- Intel Atom N270 1.6 GHz Ultra Low Voltage processor
- Compact Fanless Embedded System & Energy Star approved
- Low-power and economical panel PC with sufficient I/O connectors
- IP65 Approved Front Protection & Panel Mounting
- More Durable 5-wire Resistive Touch Screen
- Al Alloy Front Bezel and Steel rear cover
- Support Windows, Linux and Android
- Data Storage can be expanded by optional SATA HDD kit
- Support VESA, Desktop and Wall Mounting by optional mounting kit



Introduction

TPC-1250H touch panel computer with a 12.1" SVGA LCD, low power embedded Intel Atom N270 1.6GHz processor and 2GB DDR2 SDRAM targets at low-power, essential and economical requirements. The compact fanless design still provide the sufficient I/O connectors. Except for Compact Flash storage, data storage of TPC-1250H can be expanded by optional SATA HDD kit. To enhance its durability, TPC-1250H is designed with IP65 front protection, die-cast Al Alloy front bezel and 5-wire resistive touch. The requirement of VESA, Wall mounting or Desktop mounting can be fulfilled by the optional mounting kit.

Specifications

General

■ **BIOS** Award® 4Mbit

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

• Cooling System Fanless design

Dimensions (W x H x D) 311 x 237 x 54 mm (12.24" x 9.33" x 2.13")

• Enclosure hbgFront bezel: Die-cast aluminum alloy Back housing: SECC

Mounting Desktop, Wall () or Panel Mount

OS Support
 Microsoft® Windows® 7/XPE/WES
 Windows CE 5.0/6.0 with Java Script

Linux with Firefox explorer and Java Script plug-in

Power Consumption
 Power Input
 Watchdog Timer
 35 W (typical)
 18 ~ 28 V_{DC}
 ~ 255 sec (system)

• Weight (Net) 2.5 kg (5.51 lb)

System Hardware

 ■ CPU
 Intel® Atom™ N270 1.6 GHz

 ■ Chipset
 Intel® 945GSE+ICH7M

 ■ Memory
 2GB SO-DIMM DDR2 667 SDRAM

• LAN 10/100/1000Base-T x 2

Storage CFast slot x 1

Optional, external 2.5" SATA HDD kit RS-232 x1, RS-232/422/485 x 1

USB 2.0 x 2 (Host)

LCD Display

I/0

Display Type
 SVGA TFT LED LCD

Display Size 12.1"
 Max. Resolution 800 x 600
 Max. Colors 262 K
 Luminance cd/m² 450
 Viewing Angle (H/V°) 160/140
 Backlight Life 50,000 hrs

Touchscreen

Lifespan
 10 million touches at single point

Light Transmission Above 75%Resolution Linearity

Type 5-wire, analog resistive

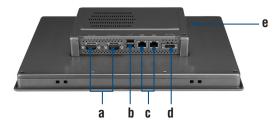
Environment

Humidity
 10 ~ 95% RH @ 40°C, non-condensing

Ingress Protection Front panel: IP65
Operating Temperature Storage Temperature Vibration Protection Front panel: IP65
0 ~ 55°C (32 ~ 131°F)
-20 ~ 60°C (-4 ~ 140°F)
2 Grms (5 ~ 500 Hz)

(Operating, random vibration)

Rear View

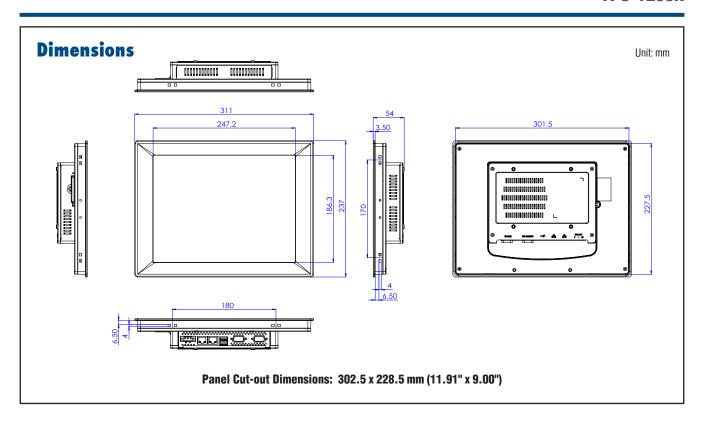


a. COM (RS-232, RS-422/485) b. USB 2.0

D. USB 2.0 c. LAN (10/100/1000) d. Power Receptor e.CFast

Contrast Ratio

700.1



Ordering Information

■ TPC-1250H-N2BE 12.1" SVGA Touch Panel PC, Atom™ N270 1.6GHz, 2GB

WA-TPC1250 TPC-1250H-N2BE with WebAccess software

Accessories

 PWR-247-BE 63W DC 24V/2.62A Output Power Supply

■ TPC-651H-EHKE HDD extension kit

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

Automation Software

 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

Application Software

susiÂccess	Version: V2.1 or above 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.
WebAccess	Version: V7.1 or above 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.
PANELEXPRESS Destance for Danventones	Version: V2.0.3.8 or above 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.
Webop	Version: V2.0.3.8 or above 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.