TPC-650H

5.7" VGA TFT LED LCD Intel® Atom™ **Thin Client Terminals**



Features

- Industrial 5.7" VGA TFT LCD with 50K Lifetime LED Backlight
- Intel Atom N270 1.6GHz Ultra Low Voltage processor
- Compact Fanless Embedded System & Energy Star approved
- Low-power and Econmical panel pc with sufficient I/O connectors
- IP65 Approved Front Protection & Panel Mounting
- More Durable 5-wire Resistive Touch Screen
- Support Windows, Linux and Android



Introduction

TPC-650H touch panel computer with a 5.7" VGA LCD, low power embedded Intel Atom N270 1.6GHz processor and 1GB DDR2 SDRAM targets at low-power, essential and economical requirements. The compact fanless design still provide the sufficient I/O connectors. To enhance its durability, TPC-650H is designed with IP65 front protection and 5-wire resistive touch.

Specifications

General

BIOS Award® 4Mbit

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

 Cooling System Fanless design

Dimensions (W x H x D) 195 x 148 x 58 mm (7.68" x 5.83" x 2.28")

Front bezel: PC/ABS Resin Enclosure

Back housing: SECC

Mounting 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 plugin

Power Consumption 17 W (typical) Power Input 18 ~ 28 V_{DC} Watchdog Timer 1 ~ 255 sec (system)

Weight (Net) 1.43 kg (3.15 lb)

System Hardware

- CPU Intel® Atom™ N270 1.6 GHz Intel® 945GSE+ICH7M Chipset

Memory 1GB SO-DIMM DDR2 667 SDRAM

LAN 10/100/1000Base-T x 1 Storage CompactFlash slot x 1 RS-232 x 2 (COM1, 2) I/0 USB 2.0 x 2 (Host)

PS/2 x 1

LCD Display

 Display Type VGA TET LED LCD

Display Size 5.7" Max. Resolution 640 x 480 Max. Colors 262 K Luminance cd/m² 700 Viewing Angle (H/V°) 160/140 **Backlight Life** 50.000 hrs **Contrast Ratio** 800:1

Touchscreen

 Lifespan 10 million touches at single point

Light Transmission Above 75% Resolution Linearity

Type 5-wire, analog resistive

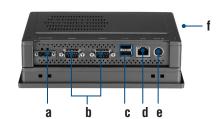
Environment

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

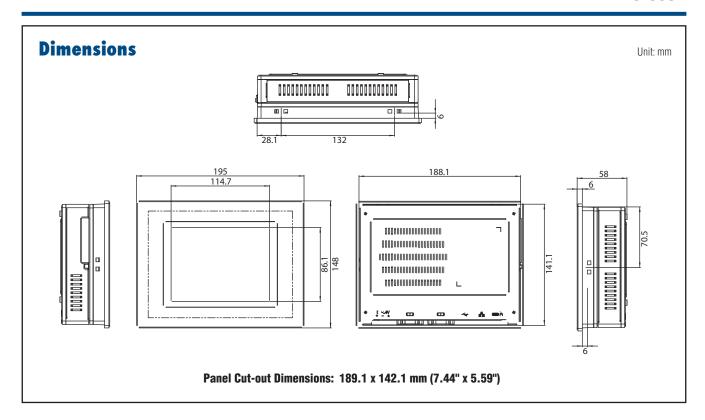
Ingress Protection Front panel: IP65 **Operating Temperature** $0 \sim 55^{\circ}\text{C}$ (32 ~ 131°F) Storage Temperature -20 ~ 60°C (-4 ~ 140°F)

Vibration Protection 2 Grms (5 ~ 500 Hz) (Operating, random vibration)

Rear View



- a. Power Receptor
- b. COM (RS232 x 2)
- c. USB 2.0
- d. LAN (10/100/1000)
- e. PS/2
- f. CompactFlash



Ordering Information

■ TPC-650H-N2AE 5.7" VGA Touch Panel PC, Atom™ N270 1.6GHz, 1GB WA-TPC650 TPC-650H-N2AE with WebAccess software

Accessories

■ PWR-247-BE 63W DC 24V/2.62A 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

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.
WebAcc ss	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 Designed for Convenience	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.