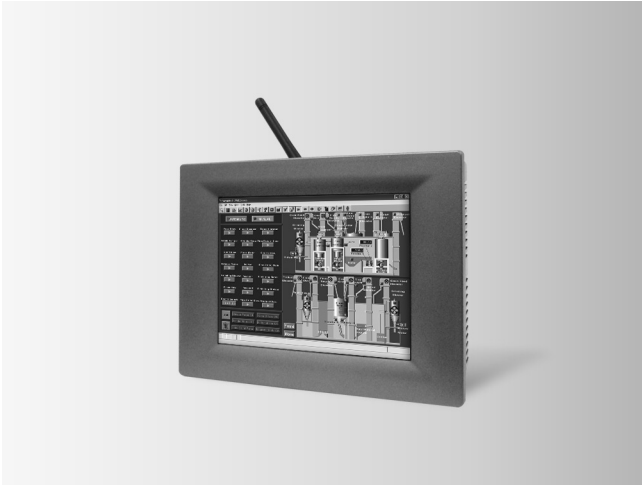# TPC-671H

6.5" VGA LED LCD Intel® Atom™ Z510 Touch Panel Computer

Features

- Intel® Atom™ processor up to 1.1 GHz
- 6.5" VGA TFT LCD
- Super slim and compact design with ABS+PC housing
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Full-size Mini PCIe expansion support
- Serial port isolation protection
- Automatic data flow control RS-485
- Gigabit Ethernet supported
- Supports Microsoft® Windows® 7/ XP/ WES / WEC

Introduction

With a high quality TFT LCD display, TPC-671H is designed with the Intel® Atom™ Z510 processor as its core. The Intel® Atom™ has low power consumption and 1.1 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-671H a durable and reliable platform. Supports Mini-PCIe expansion to bundle with IoT-Rready and Communication module to meet more applications in outdoor and iTerminal Gateway.

Specifications

General

BIOS	Award
Certifications	BSMI, CCC, CE, FCC Class A, UL
Cooling System	Fanless design
Dimensions (W x H x D)	195 x 148 x 44.5 mm (7.68" x 5.83" x 1.75")
Enclosure	ABS + PC
Mounting	Desktop, Wall or Panel Mount
OS Support	Microsoft® Windows® 7/ XP/ WES / WEC*
Power Consumption	6.6W (Typical), 9W (Full load)
Power Input	18~32 V_{DC}
Watchdog Timer	1 ~ 255 sec (system)
Weight (Net)	0.95 kg(2.1 lbs)

System Hardware

CPU	Intel® Atom™ Z510 1.1GHz with 512KB cache
Chipset	US15WP
Memory	1GB SO-DIMM DDR2 SDRAM
LAN	10/100/1000Base-T x 1
Expansion Slots	Full-size Mini PCI-E
Storage	CompactFlash® slot x 1
I/O	RS-232 x 1(COM1) RS-422/485 x 1 (COM2) with isolation and auto data flow control USB 2.0/1.1 x 2 (Host)

LCD Display

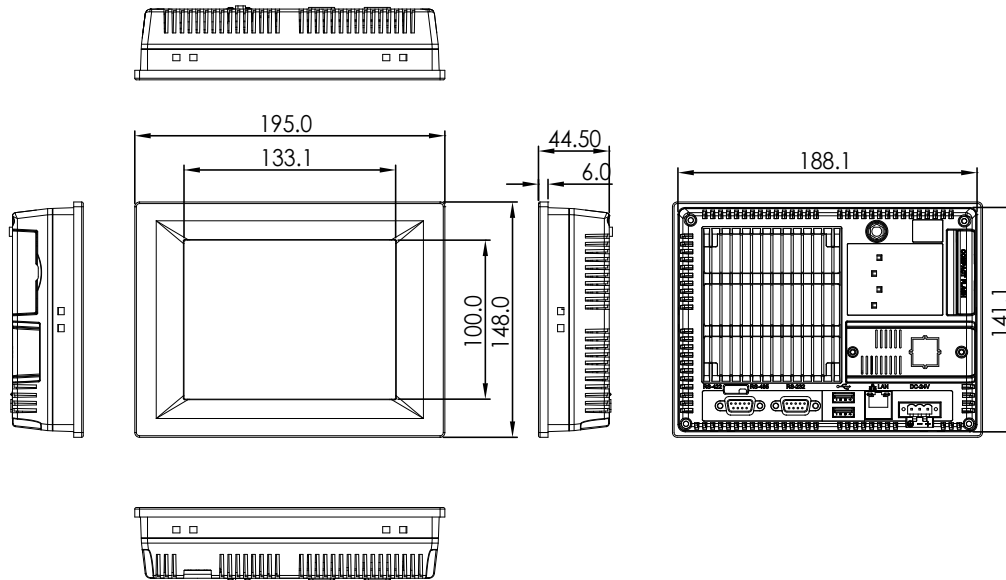|	
Display Type	VGA TFT LCD
Display Size	6.5"
Max. Resolution	640 x 480
Max. Colors	262 K
Luminance cd/m²	700
Viewing Angle (H/V°)	160/140
Backlight Life	50,000 hrs
Contrast Ratio	600 : 1

Touchscreen

Lifespan	36 millions times touches at single point (finger hitting rate by 250g at 2 times per second)
Light Transmission	Above 75%
Resolution	Linearity
Type	5-wire, analog resistive

Environment

Humidity	10 ~ 95% RH @ 40°C, non-condensing
Ingress Protection	Front panel: NEMA4, IP65
Operating Temperature	0 ~ 50°C (32 ~ 122°F)
Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)
Vibration Protection	2 Grms (5 ~ 500 Hz) (Operating, random vibration)

Dimensions

Unit: mm

195.0
133.1
44.50
6.0
100.0
148.0
188.1
141.1

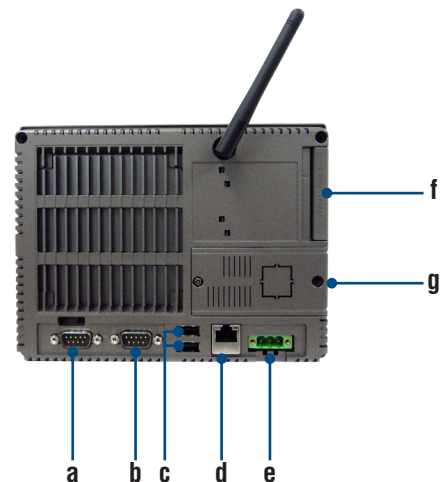**Panel Cut-out Dimensions: 188.4 x 141.4mm**

Ordering Information

- **TPC-671H-Z2AE**   6.5" VGA Touch Panel, Z510 1.1GHz, 1GB

Accessories

- **1757003463**   100-240V_{AC} to 19V_{DC} 90W Power Adapter
- **1700001524**   Power Cord 3P UL 10A 125V 1.8M
- **1702002605**   Power cable EU Plug 1.8M
- **1702031801**   Power cable UK Plug 1.8M
- **1702031836**   Power cable China/Australia Plug 1.8M
- **968EMW0028**   WLAN IEEE 802.11 b/g/n Mini PCIe
- **PWR-247-AE**   50W DC 24V/2.3A Output Power Supply

Rear View

f
g

a   b   c   d   e

a. COM (RS-422/485)   e. Power Receptor
b. COM(RS-232)   f. Compact Flash
c. USB 2.0   g. Mini PCI-E slot
d. LAN (10/100/1000)

* Windows XPe supports 10 lanquages with MUI. (English, Traditional Chinese, Simplifed Chinese, French, German, Spanish, Russian, Italian, Japanese and Korean)