# C-TPC650H-PBW01
# C-TPC1250H-PBW02
# C-TPC1550H-PBW02
# C-TPC1750H-PBW01

**Powered By Wonderware**
**5.7" VGA/12.1" SVGA/15" XGA/17" SXGA TFT**
**LED LCD Intel® Atom™ Thin Client Terminals**



NEW

R33138  CCC  CE  FCC  c(UL)us  LISTED E180881 I.T.E.

## Features

- Intel® Atom™ N270 1.6 GHz processor
- 5.7" VGA/12.1" SVGA/15" XGA/17" SXGA TFT LED LCD
- Fanless cooling system
- IP65 compliant front panel
- Supports Microsoft® Windows CE included
- Windows CE 6.0 with Java Script ready included
- 1x CF / CFast slot with storage card integrated
- Gigabit Ethernet supported
- Energy Star approved

## Introduction

With a high quality TPC product line, TPC extends its Touch Panel Computer family with Intel® Atom™ platform for 5.7", 12.1",15" and17". TPC thin client is designed with Intel® Atom™ 1.6 GHz processor as its core. The Intel® Atom™ has low power consumption and 1.6 GHz operating frequency. This system is fanless, slim design for Web-based terminal solutions, so JavaScript is included in the Windows operating system. These TPCs ships with Windows CE 6.0 and Wonderware's InTouch Compact Edition (license not included).

## Specifications

### General

- **BIOS** — Award® 4Mbit
- **Certifications** — BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** — Fanless design
- **Dimensions (W x H x D)** — 650H: 195 x 148 x 58 mm (7.68" x 5.83" x 2.28")
  1250H: 311 x 237 x 54 mm (12.24" x 9.33" x 2.12")
  1550H: 383 x 307 x 58.1 mm (15.08" x 12.09" x 2.29")
  1750H: 413.7 x 347.2 x 63.8 mm (16.28" x 13.68" x 2.5")
- **Enclosure** — TPC-650H Front bezel: PC/ABS Resin
  TPC-1250H/1550H/1750H front bezel: Die-cast aluminum alloy
  Back housing: SECC
- **Mounting** — Desktop, Wall (only for TPC-1250H/1550H/1750H) or Panel Mount
- **OS Support** — Microsoft - WinCE 6.0 OS Included
- **Power Consumption** — 17 W/35 W/40 W/43W (typical)
- **Power Input** — 18 ~ 28 $V_{DC}$, 18 ~ 32 $V_{DC}$ (TPC-1750H only)
- **Watchdog Timer** — 1 ~ 255 sec (system)
- **Weight (Net)** — 1.43 kg (3.15 lb)/2.5 kg (5.51 lb)/3 kg (6.61 lb)/ 3.5 kg (7.71 lb)

### System Hardware

- **CPU** — Intel® Atom™ N270 1.6 GHz
- **Chipset** — Intel® 945GSE+ICH7M
- **Memory** — 2GB SO-DIMM DDR2 667 SDRAM
  1GB SO-DIMM DDR2 667 SDRAM (TPC-650H only)
- **LAN** — 10/100/1000Base-T x 2, (TPC-650H with One Giga LAN)
- **Storage** — CFast slot x 1
  CompactFlash slot x 1 (TPC-650H only )
  (2GB card included)

- **I/O** — TPC-650H: RS-232 x 2 (COM1, 2)
  TPC-1250H/1550H/1750H: RS-232 x1,
  RS-232/422/485 x 1
  USB 2.0 x 2 (Host)
  PS/2 x 1 (TPC-650H only)

### LCD Display

- **Display Type** — VGA/SVGA/XGA/SXGA TFT LED LCD
- **Display Size** — 5.7"/12.1"/15"/17"
- **Max. Resolution** — 640 x 480/800 x 600/1024 x 768/1280 x 1024
- **Max. Colors** — 262 K
- **Luminance cd/m²** — 700/450/350/350
- **Viewing Angle (H/V°)** — 160/140; 170/160 (TPC-1750H only)
- **Backlight Life** — 50,000 hrs
- **Contrast Ratio** — 800:1/700:1/700:1/1000:1

### Touchscreen

- **Lifespan** — 10 million touches at single point
- **Light Transmission** — Above 75%
- **Resolution** — Linearity
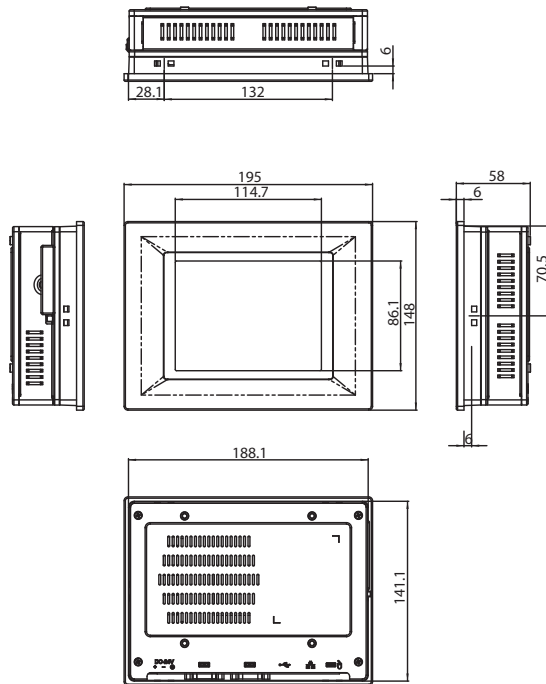- **Type** — 5-wire, analog resistive

### Environment

- **Humidity** — 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** — Front panel: IP65
- **Operating Temperature** — 0 ~ 55°C (32 ~ 131°F)
- **Storage Temperature** — -20 ~ 60°C (-4 ~ 140°F)
- **Vibration Protection** — 2 Grms (5 ~ 500 Hz)
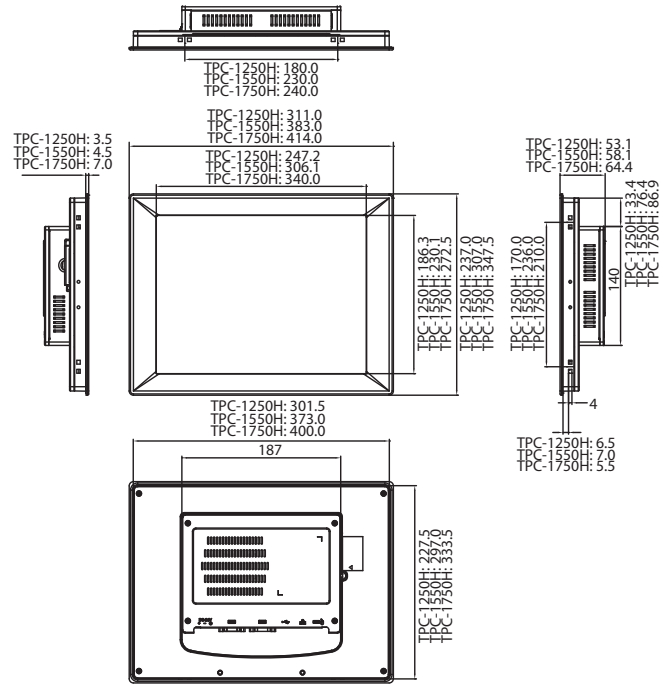  (Operating, random vibration)

**ADVANTECH** This is an official product of an Advantech Business Alliance Partner

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# Dimensions

Unit: mm

**TPC-650H**

**TPC-1250H/1550H/1750H**

**TPC-650H dimensions:**
- 6
- 28.1 | 132
- 195
- 114.7
- 86.1 | 148
- 58
- 6
- 70.5
- 6
- 188.1
- 141.1

**TPC-1250H/1550H/1750H dimensions:**
- TPC-1250H: 180.0 / TPC-1550H: 230.0 / TPC-1750H: 240.0
- TPC-1250H: 311.0 / TPC-1550H: 383.0 / TPC-1750H: 414.0
- TPC-1250H: 3.5 / TPC-1550H: 4.5 / TPC-1750H: 7.0
- TPC-1250H: 247.2 / TPC-1550H: 306.1 / TPC-1750H: 340.0
- TPC-1250H: 53.1 / TPC-1550H: 58.1 / TPC-1750H: 64.4
- TPC-1250H: 186.3 / TPC-1550H: 237.0 / TPC-1750H: 272.5
- TPC-1250H: 237.0 / TPC-1550H: 307.5
- TPC-1250H: 170.0 / TPC-1550H: 136.0 / TPC-1750H: 210.0
- 140
- TPC-1250H: 33.4 / TPC-1550H: 86.9 / TPC-1750H:
- TPC-1250H: 301.5 / TPC-1550H: 373.0 / TPC-1750H: 400.0
- 4
- TPC-1250H: 6.5 / TPC-1550H: 7.0 / TPC-1750H: 5.5
- 187
- TPC-1250H: 227.5 / TPC-1550H: 297.0 / TPC-1750H: 333.5

**Panel Cut-out Dimensions:**
- **TPC-650H: 189.1 x 142.1 mm (7.56" x 5.68")**
- **TPC-1250H: 302.5 x 228.5 mm (12.1" x 9.14")**
- **TPC-1550H: 374.5 x 298.5 mm (14.98" x 11.94")**
- **TPC-1750H: 400.8 x 334.3 mm (16.03" x 13.37")**

# Ordering Information

- **C-TPC650H-PBW01** — 5.7" VGA Touch Panel with Powered By Wonderware InTouch, WinCE6.0, 2GBCF
- **C-TPC1250H-PBW02** — 12.1" SVGA Touch Panel with Powered By Wonderware InTouch, WinCE6.0, 2GBCF
- **C-TPC1550H-PBW02** — 15" XGA Touch Panel with Powered By Wonderware InTouch, WinCE6.0, 2GBCF
- **C-TPC1750H-PBW01** — 17" SXGA Touch Panel with Powered By Wonderware InTouch, WinCE6.0, 2GBCF

## Accessories

- **TPC-1000H-WMKE** — TPC series wallmount kit from 10" to 17"
- **TPC-1000H-SMKE** — TPC series stand kit from 10" to 17"
- **PWR-247-AE** — 24 V 50 W AC-DC Power Adapter
- **1702002600** — Power Cord 3P UL/CSA(USA) 125V 10A 1.83M

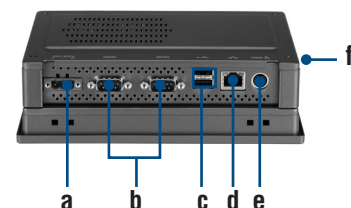* VESA support via a wall mounting kit (only for TPC-1250H/1550H/1750H)

# Rear View

**TPC-1250H/1550H/1750H**

- e

- a
- b
- c
- d

a. COM (RS-232, RS-422/485)    d. Power Receptor
b. USB 2.0                     e. CFast
c. LAN (10/100/1000)

**TPC-650H**

- f

- a
- b
- c
- d
- e

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