TPC-1780H
TPC-1770H

17" SXGA TFT LCD Core ™2 Duo L7400 Touch Panel Computer

17" SXGA TFT LCD Celeron® M Touch Panel Computer

Features

- Intel® Core ™2 Duo L7400 processor up to 1.5 GHz on board/ Intel Celeron® M processor up to 1 GHz on board
- 17" SXGA TFT LCD
- Compact design with die-cast Al alloy front bezel
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Supports Microsoft® Windows® XP/XPe/Vista (TPC-1780H only)
- Downward I/O cabling
- Gigabit Ethernet and Fast Ethernet supported

Introduction

With a high quality TFT LCD display, TPC-1780H/TPC-1770H is designed with the Intel Core 2 Duo L7400/Intel Celeron M processor as its core. The Intel Core 2 Duo/Intel Celeron M has low power consumption and 1.5/1 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-1780H/TPC-1770H a durable and reliable platform. For applications where spindle-free storage is not critical, a fast-access HDD module can be used. The rich I/O portfolio meets diverse requests.

Specifications

General

- **BIOS** — Award® 4 MB
- **Certifications** — BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** — Fanless design
- **Dimensions (W x H x D)** — 414 x 347.5 x 93 mm (16.3" x 13.68" x 3.66")
- **Enclosure** — Front bezel: Die-cast Aluminum alloy
  Back housing: ABS + PC
- **Mounting** — Desktop, Wall or Panel Mount
- **OS Support** — Windows XP/XPe (Vista only for TPC-1780H)
- **Power Consumption** — 100 W Typical
- **Power Input** — 18 ~ 32 VDC
- **Watchdog Timer** — 1 ~ 255 sec (system)
- **Weight (Net)** — 8 kg (17.64 lbs)

System Hardware

- **CPU** — TPC-1780H: Intel Core 2 Duo L7400 1.5 GHz
  TPC-1770H: Intel Celeron M 1 GHz 512k cache
- **Chipset** — TPC-1780H: Intel 945GME + ICH7
  TPC-1770H: Intel 915GME + ICH6M
- **Memory** — TPC-1780H: 2GB SO-DIMM DDR2 SDRAM, Up to 2GB
  TPC-1770H: 1GB 240pin DIMM DDR2 SDRAM
- **LAN** — 10/100/1000Base-T x 2
- **Expansion Slots** — PCI-104 (Up to 1unit, Optional)
  RS-422/485 (Optional)
- **Storage** — CompactFlash® slot x 1
  2.5" SATA HDD x 1(optional)
- **I/O** — RS-232 x 3 (COM1, 3, 4)
  USB 2.0 x 4 (Host)
  PS/2 Keyboard x 1, PS/2 Mouse x 1
  VGA x 1
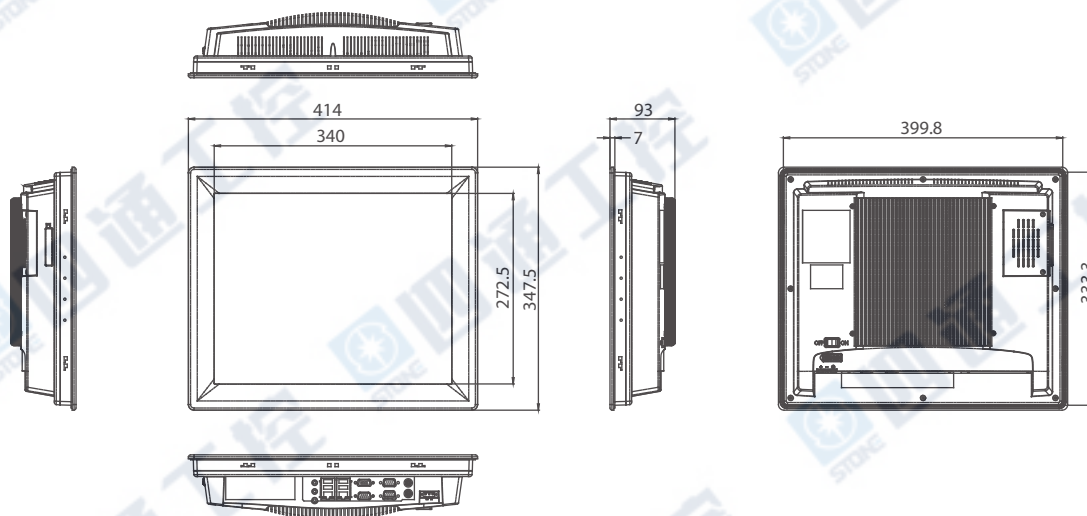 MIC-in x 1, Line-in x 1, Line-out x 1

LCD Display

- **Display Type** — SXGA TFT LCD
- **Display Size** — 17"
- **Max. Resolution** — 1280 x 1024
- **Max. Colors** — 16.7 M
- **Luminance cd/m²** — 300
- **Viewing Angle (H/V°)** — 160/160
- **Backlight Life** — 50,000 hrs
- **Contrast Ratio** — 800:1

Touchscreen

- **Lifespan** — 1 million touches at single point
- **Light Transmission** — Above 75%
- **Resolution** — Linearity
- **Type** — 8-wire, analog resistive
- **Environment**
- **Humidity** — 10 ~ 95% RH @ 40° C, non-condensing
- **Ingress Protection** — Front panel: NEMA4, IP65
- **Operating Temperature** — 0 ~ 45° C (32 ~ 113° F)
- **Storage Temperature** — -20 ~ 60° C (-4 ~ 140° F)
- **Vibration Protection** — With HDD: 1 Grms (5 ~ 500 Hz)
  (Operating, random vibration)

Dimensions

Unit: mm

Panel Cut-out Dimensions: 400.8 x 334.3 mm

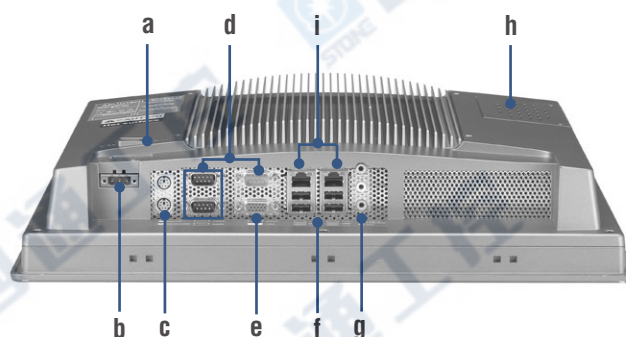(Dimension callouts: 414, 340, 272.5, 347.5, 93, 7, 399.8, 333.3)

Ordering Information

- **TPC-1780H-P3AE**   17" SXGA Touch Panel PC, Core 2 Duo L7400, 2 GB
- **TPC-1770H-C2BE**   17" SXGA Touch Panel PC, Celeron M 1 GHz, 1 GB

Accessories

- **TPC-1770H-SMKE**   TPC-1770H/1780H Desktop Stand
- **TPC-1770H-WMKE**   TPC-1770H/1780H Wallmount Kit
- **PWR-244-AE**   24V 110W AC-DC Power Adapter

Rear View

a. Power Switch, Fuse
b. Power Receptor
c. PS/2
d. COM (RS-232)
e. VGA
f. USB 2.0

g. Audio (Line-In, Line-Out, MIC)
h. 2.5" SATA HDD Housing
i. LAN (10/100/1000)