

TPC-1840WP

18.5" WXGA TFT LCD Multi-Touch Panel Computer with AMD Dual-core processor



product
design award

2013



Features

- 18.5" WXGA TFT LED LCD display
- AMD dual-core T56E 1.65GHz with external APU, advanced graphical performance
- 16:9 wide screen with PCT multi-touch
- Built-in function and home key button used for intuitive UI
- Anti-scratch surface: 7H hardness
- Easy Maintenance of Cfast/HDD/Mini-PCIe components by opening side cover
- Support Mini-PCIe expansion slot
- Support HDMI for second display application
- HD Audio supports for alarm application
- Front LED indicator to show operating status
- IP65 compliant true flat screen
- Compact design with Die-cast Magnesium alloy front bezel
- Fanless cooling system
- Winner of the 2013 iF product design award

Introduction

With brand-new ID design, TPC-1840WP series provide high resolution 18.5" display and PCT multi-touch in 16:9 wide format. By embedding AMD T56E 1.65GHz processor with external APU, TPC-1840WP can support advanced graphical performance in more complex applications. Built-in function and home key button for greater user usability and operating safety. TPC-1840WP series also support mini-PCIe slot for communication function expansion. The opening side cover is designed for easy maintenance of Cfast/HDD/Mini-PCIe components.

Specifications

General

- **BIOS** AMI 32Mbit
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 488.1 x 309.1 x 56.7 (19.2" x 12.2" x 2.2")
- **Enclosure** Front bezel: Die-cast Magnesium alloy
Back housing: PC/ABS Resin
- **Mounting** Panel Mount
- **OS Support** Microsoft® Win8/WES7P/XP/WES2009/WinCE 6.0/
Linux
- **Power Consumption** 35 W Typical
- **Power Input** 18 ~ 32 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** 7kg (15.44 lbs)

System Hardware

- **CPU** AMD G-series T56E 1.65GHz
- **Chipset** AMD A50M FCH
- **Memory** 4GB SO-DIMM DDR3 SDRAM
- **LAN** 10/100/1000Base-T x 2
- **Expansion Slots** Full-sized Mini PCI-E x 1
- **Storage** CFast slot x 1
2.5" SATA HDD x 1(optional)
- **I/O** RS-232 x 3
RS-422 / 485 x1
USB 2.0 x 2(Host)
HDMI x 1
Mic in x 1, Line out x 1

LCD Display

- **Display Type** WXGA TFT LED LCD
- **Display Size** 18.5"
- **Max. Resolution** 1366 x 768
- **Max. Colors** 16.7 M
- **Luminance cd/m²** 300
- **Viewing Angle (H/V°)** 170/160
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 1000:1

Touchscreen

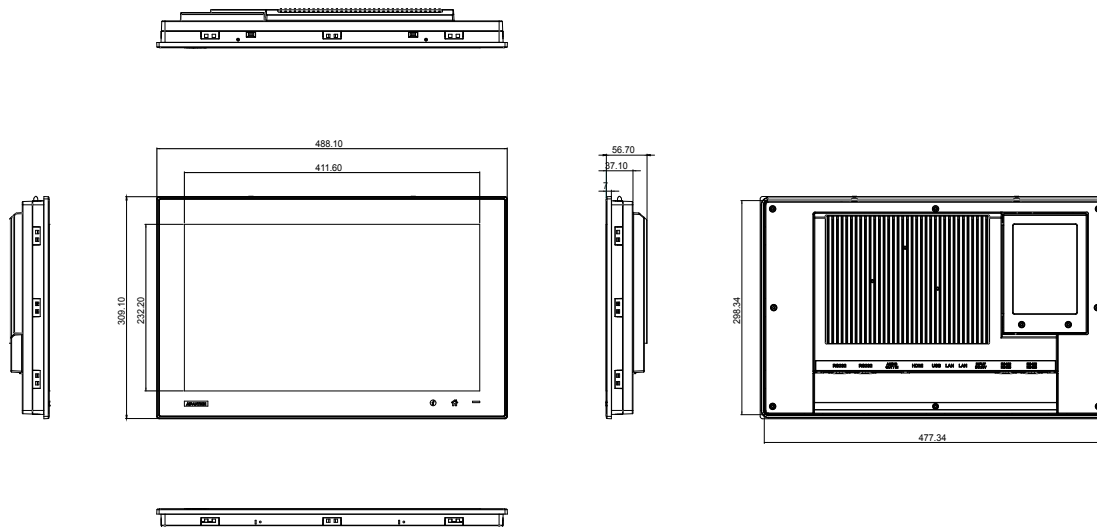
- **Light Transmission** ≥88%
- **Resolution** 4096*4096 dot
- **Type** Projected capacitive / 5-wire analog resistive (optional)

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
Note: Tested for 48hrs
- **Ingress Protection** Front panel: IP65
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°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: 479.3 x 300.3 mm (19.2" x 12")

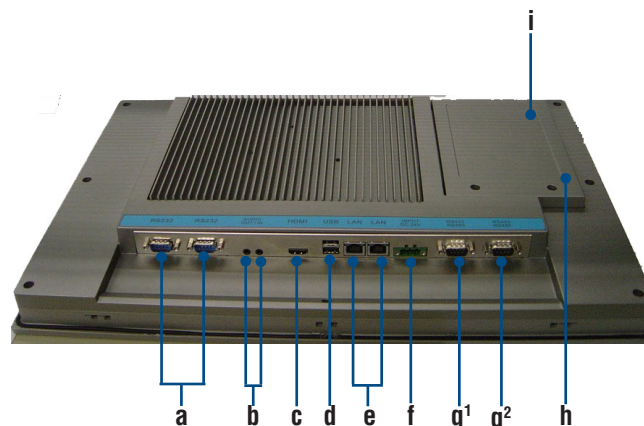
Ordering Information

- **TPC-1840WP-T3AE** 18.5" WXGA Multi-Touch Panel PC, AMD T56E, 4GB

Accessories

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

Rear View



- a. COM 1 & 2 (RS-232)
- b. Audio (Line out, Mic in)
- c. HDMI
- d. USB 2.0
- e. LAN (10/100/1000)
- f. Power Receptor
- g¹. COM3 (RS-232)
- g². COM4 (RS-422/485)
- h. Mini PCI-E slot
- i. 2.5" SATA HDD Housing