TPC-2140WP

21.5" Full HD TFT LCD Touch **Panel Computer with AMD Dual-Core Processor**



2013



Features

- 21.5" Full HD TFT LED LCD display with 16:9 widescreen aspect ratio
- AMD dual-core T56E 1.65 GHz processor with independent GPU for advanced graphics performance
- IP66-rated, true-flat touchscreen with PCAP multi-touch control
- Built-in function key and home key for intuitive operation
- Anti-scratch surface with 7H hardness
- Easy-access CFast, HDD, and mini PCIe slots
- Supports expansion via mini PCIe slot
- Supports HDMI for secondary display
- Supports HD audio for alarm applications
- Front-facing LED indicators for showing operating status
- · Compact design with die cast magnesium alloy front bezel
- Fanless cooling system
- Winner of the 2013 iF product design award

Introduction

The TPC-2140WP touch panel computer features a 21.5" Full HD TFT LED LCD with a 16:9 widescreen aspect ratio and PCAP multi-touch control. Powered by an AMD T56E 1.65 GHz processor with independent GPU, TPC-2140WP can support advanced graphics performance for complex applications. The built-in function key and home key offer enhanced usability and intuitive operation. The side I/O cover provides easy access to the CFast, HDD, and mini PCIe slots. With the inclusion of a mini PCIe slot, the TPC-2140WP's functionalities can be easily expanded to support diverse applications.

Specifications

General

	Certification	
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- Cooling System
- Dimensions (W x H x D) 558.4 x 349.8 x 56.7 (21.98 x 13.77 x 2.23 in)
- Enclosure

Mount Options

OS Support

Power Consumption

- Power Input
- Watchdog Timer
- Weight (Net)

System Hardware

- CPU
- Chipset
- Memory
- LAN
- **Expansion Slots**
- Storage
- I/0

4 GB SODIMM DDR3 SDRAM 2 x 10/100/1000BASE-T 1 x Full-size mini PCle 1 x CFast 1 x 2.5" SATA SSD (optional) 3 x RS-232 1 x RS-422/485 2 x USB 2.0 (Host) 1 x HDMI 1 x Audio mic in, 1 x line out

Full HD TFT LED LCD

AMI 32Mbit

Panel

35 W Typical

1 ~ 255 sec (system)

AMD G-series T56E 1.65GHz

8.5 kg (18.74 lb)

AMD A50M FCH

18 ~ 32 Vpc

Fanless design

BSMI, CCC, CE, FCC Class A, UL

Front panel: Die cast magnesium alloy Rear cover: PC/ABS resin

Microsoft® Win8/WES7P/XP/WES2009

LCD Display

- Display Type
- **Display Size** .
- Max. Resolution
- Max Colors
- Luminance cd/m²
- Viewing Angle (H/V°) .
- **Backlight Life**

Touchscreen

- Light Transmission
- Resolution
- 4096*4096 dot Projected capacitive

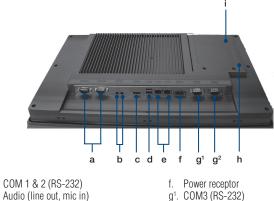
>88%

Environment

- Humidity

- Vibration Protection
 - With HDD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

Rear View



b. Audio (line out, mic in)

a.

- HDMI C. d. USB 2.0
- LAN (10/100/1000) e.

COM3 (RS-232) g². COM4 (RS-422/485) Mini PCle Slot

2.5" SATA HDD

178/178 50,000 hr

1920 x 1080

21.5"

16.7M

300

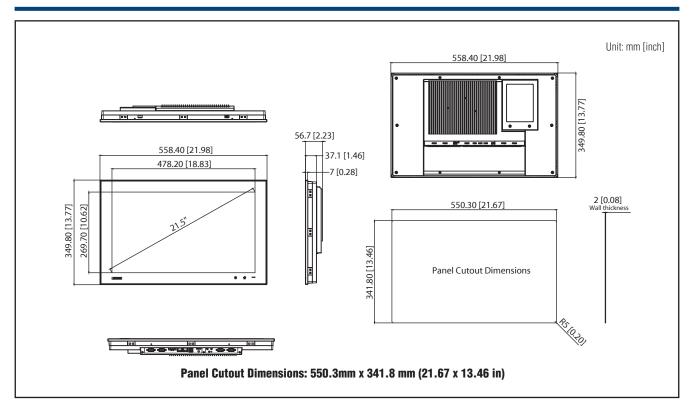
h.

i.

- -20 ~ 60 °C (-4 ~ 140 °F) Storage Temperature
- 10 ~ 95% RH @ 40 °C, non-condensing Note: Tested for 48 hr **Ingress Protection** Front panel: IP66
- Operating Temperature 0 ~ 55 °C (32 ~ 131 °F)

Type

TPC-2140WP



Ordering Information

• TPC-2140WP-T3AE 21.5" full-HD Multi-Touch Panel PC, AMD T56E, 4GB

Optional Accessory

- PWR-247-CE 60W DC 24V/2.5A Output Power Supply
- 1702002600 Power Cord 3P UL/CSA 125V 10A 1.83M
- 1702002605 Power cable EU Plug 1.8M
- 1702031801 Power cable UK Plug 1.8M
- 1700000596-11 Power cable China/Australia Plug 1.8M

Embedded OS

- 2070012384
- TPC-xx40WP WS7P x86 MUI Image v4.12

S/W Bundle Offering

- WA-HT2140W-G15H1AE TPC-2140WP-T3AE, HMI Runtime 1500 tags, 32G CFast, WES7P
- WA-ST2140W-G15H4AE TPC-2140WP-T3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P

Application Software

WebAccess/SCADA	Advantech WebAccess/SCADA is a 100% browser-based IIoT software platform aimed at supervisory control and data acquisition (SCADA) operations. WebAccess/SCADA provides open interfaces that allow our customers and partners to develop unique IoT applications for different vertical markets. In addition to supporting traditional SCADA functions, the platform features an HTML5-based user interface and intelligent dashboard to facilitate cross-platform, cross-browser data analysis. Moreover, WebAccess/SCADA not only offers built-in widgets, but is also equipped with an innovative Widget Builder that enables customers to build their own widgets.
WebAccess/HMI	Advantech WebAccess/HMI is human-machine interface (HMI) software based on Microsoft's Windows operating system. This software features excellent communication and monitoring capabilities, supports more than 350 PLC communication protocols, and offers a wide choice of screen design objects to satisfy diverse integrations of factory automation and HMI operation and monitoring requirements.