# ESRP-CMS-TPC1251

### 12.5" Intel Atom Multi-Touch PC ACP **Ready ThinClient**



### Features

- Verified with ACP ThinManager, ACP BIOS enabled
- Industrial-grade 12" XGA TFT LCD with 50K lifetime and LED backlight
- Intel<sup>®</sup> Atom<sup>™</sup> E3845 1.91 GHz quad-core processor with 4 GB DDR3L SDRAM
- True-flat touchscreen with 5-wire resistive touch control and IP66-rated front panel
- Wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F)
- Front-facing LED indicators to show operating status
- Compact, fanless system with aluminum alloy front bezel and chassis grounding protection

XGA TFT LED LCD

1024 x 768

600 cd/m<sup>2</sup>

178/178

50,000 hr

16.2M

Supports VESA mount (100 x 100 mm)

# Introduction

Realize the true value of thin client and centralized management technologies with Advantech's ThinManager compatible industrial thin clients. ACP's ThinManager, the leading thin client solution for the factory floor, and Advantech's industrially hardened thin client hardware provide a unique solution for centralized management of factory floor applications.

ESRP-CMS-TPC1251 is the next-generation model of Advantech's 12" industrial panel PC. Equipped with a 12" XGA TFT LED LCD, low-power Intel® Atom™ E3845, 1.91GHz, guad-core processor, and 4 GB of DDR3L SDRAM, TPC-1251T(B) delivers high-performance computing in a compact, fanless system. For enhanced durability to satisfy diverse industrial automation applications, ESRP-CMS-TPC1251 supports a wide operating temperature range (-20 ~ 60 °C/-4 ~ 140 °F) and features a true-flat 5-wire resistive touchscreen with IP66-rated front panel, die-cast aluminum alloy front bezel, and 100 x 100 VESA mount kit.

# **Specifications**

#### General

- BIOS ACP BIOS enabled Certification BSMI, CCC, CE, FCC Class A, UL Cooling System Fanless design Dimensions (W x H x D) 311.8 x 238 x 55.4 mm (12.28 x 9.37 x 2.18 in) Enclosure Front bezel: Die-cast aluminum alloy Back housing: SECC Mount Options VESA mount, Desktop/wall/panel Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), OS Support Windows 10 Enterprise LTSB, Android, Advantech Linux - Power Consumption Typical 25W, 43.8W max. Power Input 24 V<sub>DC</sub> +/- 20% Watchdog Timer 1 ~ 255 sec (system) Weight (Net) 3.12 kg (6.88 lb) System Hardware - CPU Intel® Atom™ E3845, 1.91 GHz, quad core Memory 1 x SODIMM with 4 GB DDR3L SDRAM (up to 8 GB) LAN 2 x Intel® I210; 10/100/1000 BASE-T 1 x Full-size mini PCle (USB+PCle interface)
- Expansion Slots
- Storage
- I/O
- 1 x 2.5" SATA SSD, 1 x mSATA 1 x RS-232
  - 1 x RS-232/422/485
  - 1 x USB 3.0
  - 3 x USB 2.0
  - 1 x iDoor slot

#### LCD

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

#### Touchscreen

- Lifespan
- Light Transmission
- Resolution
- Type

#### **Environment**

- Humidity
- Ingress Protection IP66-rated front panel
- -20~60°C (-4~140°F) **Operating Temperature**
- **Storage Temperature Vibration Protection**
- -30 ~ 70 °C (-22 ~ 158 °F) With SSD: 1 Grms (5 ~ 500 Hz)
  - (operating, random vibration)

5-wire analog resistive

10 ~ 95% RH @ 40 °C, non-condensing

### **Rear View**



A. HDD/SSD bay B. iDoor slot C.RS-232 D.RS-232/422/485

E. USB 2.0 and 3.0 F. LAN (10/100/1000) G. Power input H. Antenna port

All product specifications are subject to change without notice.

1000:1 36 million touches at a single point Above 75%

12'

Linearity

### ESRP-CMS-TPC1251



# **Ordering Information**

• ESRP-CMS-TPC1251 TPC-1251 (B), ACP Ready ThinClient

## **Optional Accessories**

PWR-247-DE • 1702002600

1702002605

- 60W 24  $V_{\text{DC}}$  /2.5A power supply Power cable (US) 1.8 M
  - Power cable (EU) 1.8 M
- 1702031801 **1700000596-11**
- Power cable (UK) 1.8 M Power cable (China/Australia) 1.8 M

**Online Download** www.advantech.com/products