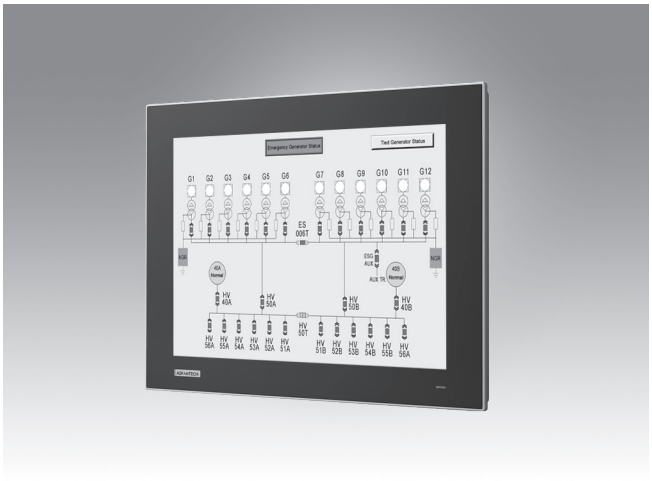
ESRP-CMS-TPC1551

15" Intel Atom Multi-Touch PC ACP Ready ThinClient



Features

- Verified with ACP ThinManager, ACP BIOS enabled
- Industrial-grade 15" XGA TFT LCD with 70K lifetime and LED backlight
- Intel® Atom™ E3845 1.91GHz Quad-core processor with 4 GB DDR3L SDRAM
- Wide operating temperature range -20 ~ 60 °C (-4 ~ 140 °F)
- True-flat touchscreen with IP66-rated front panel and default VESA 100x100
- Front-facing LED indicators to show operating status
- Durable touchscreen with 5-wire resistive touch control
- Compact, fanless embedded system with aluminum alloy front bezel and chassis grounding protection
- Default VESA 100x100

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-TPC1551 is the next-generation model of Advantech's 15" industrial panel PC. Equipped with a 15" XGA TFT LED LCD, low-power Intel® Atom™ E3845, 1.91GHz, quad-core processor, and 4 GB of DDR3L SDRAM, ESRP-CMS-TPC1551 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)	383.2 x 307.3 x 55.9 mm (15.09 x 12.10 x 2.2 in)
Enclosure	Front bezel: Die cast aluminum alloy Back housing: SECC
Mounting	VESA Mount, Desktop, Wall or Panel Mount
OS Support	Microsoft® WES7 (32/64-bit), Windows 7 (32/64-bit), Windows 10 Enterprise LTSB, Android, Advantech Linux
Power Consumption	25W typical, 50W max.
Power Input	24 V_{DC} +/- 20%
Watchdog Timer	1 ~ 255 sec (system)
Weight (Net)	4.4kg (9.7lbs)

System Hardware

CPU	Intel® Atom™ E3845 1.91GHz Quad-core processor
Memory	1 x SODIMM with 4 GB DDR3L SDRAM (supports up to 8 GB)
LAN	Intel I210; 10/100/1000BASE-T x 2
Expansion Slots	1 x Full-size mini PCIe (USB+PCIe interface)
Storage	1 x 2.5" SATA SSD, 1 x mSATA
I/O	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

Display Type	XGA TFT LED LCD
Display Size	15"
Max. Resolution	1024 x 768
Max. Colors	16.2M
Luminance cd/m²	300
Viewing Angle (H/V°)	176/176
Backlight Life	70,000 hr
Contrast Ratio	2000:1

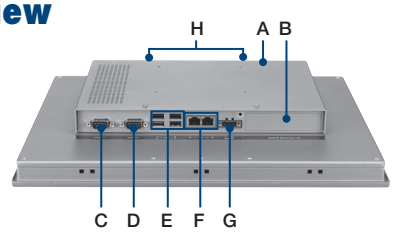
Touchscreen

Lifespan	36 million touches at a 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: IP66
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-30 ~ 70 °C (-22 ~ 158 °F)
Vibration Protection	With SSD: 1 Grms (5 ~ 500 Hz) (Operating, random vibration)

Rear View

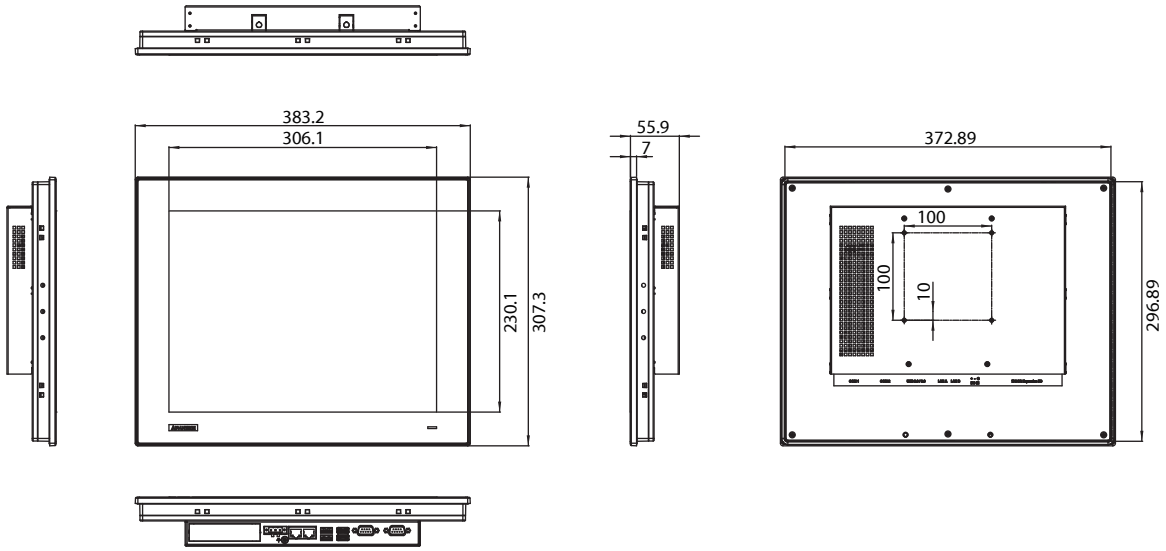


A. Default HDD/SSD Bay
B. iDoor slot
C. RS-232
D. RS-232/422/485
E. USB 2.0 & 3.0
F. LAN (10/100/1000)
G. Power Receptor
H. Antenna Opening

All product specifications are subject to change without notice.

Dimensions

Unit: mm



TPC-1551T-B Panel Cutout Dimensions: 374.5 x 298.5 mm (14.74 x 11.75 in)

Ordering Information

- **ESRP-CMS-TPC1551** TPC-1551 (B), ACP Ready ThinClient

Optional Accessories

- **PWR-247-DE** 60W 24 V_{DC} /2.5A power supply
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1700000596-11** Power Cable China/Australia Plug 1.8 M