

TPC-1071H TPC-1071HCA

**10.4"SVGA TFT LED LCD Intel® Atom™
Dual-Core D525 Touch Panel Computer**

NEW



Features

- Intel® Atom™ D525 1.8 GHz processor
- 10.4" SVGA TFT LED LCD
- Compact design with die-cast Al alloy front bezel
- Fanless cooling system
- IP65 approved front panel
- PCIe and Mini PCIe expansion support
- Supports 4 GB DDR3 SDRAM
- Integrated 16-channel Digital I/O with isolation
- 1 MB Battery-backed SRAM
- Serial port isolation protection
- Supports Microsoft® WES7/XP/WES/WinCE
- Supports external antenna for wireless communication
- Supports field-bus communication for PLC connectivity

Introduction

The TPC-1071H features a fanless low power consuming Intel® Atom™ Dual Core 1.8GHz processor 4GB DDR3 SDRAM and Resistive touch screen, and multiple I/O ports 2 x RS-232 with isolation, 1 x RS-422/485 with isolation. For data storage the fanless TPC devices also include: 1 x Compact Flash Slot and 1 x 2.5" SATA HDD. To expand function, this model provides PCIe and mini-Pcie expansion slots, an integrated 16-channel Digital I/O with isolation and 1MB Battery-backed SRAM.

The TPC-1071HCA comes complete with a CANopen card already installed. This CIA certified control ready platform assures total interoperability between all CANopen devices. The value added control ready platforms have total support for IEC-61131-3 Softlogic Control software as well as HMI/SCADA software and Advantech WebOP design and WebAccess control and monitoring software.

Specifications

General

- **BIOS** AMI 8Mbit
- **Certification** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 287.0 ±0.5x 227.0±0.5 x 72.3±1.0 mm (11.26" x 8.94" x 2.76")
- **Enclosure** Front bezel: Die-cast Aluminum alloy
Back housing: PC/ABS Resin
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Microsoft® Windows 7/WES7/WES 2009/XPE/CE 6.0/
Linux / Android
- **Power Consumption** 17W
- **Power Input** 10~29 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** TPC-1071H: 3.5 kg (7.72 lbs)

System Hardware

- **CPU** Intel® Atom™ D525 1.8 GHz with 1MB cache
- **Chipset** ICH8M
- **Memory** 4GB SO-DIMM DDR3 SDRAM
- **LAN** 10/100/1000Base-T x 2
- **Expansion Slots** Half-size PCI-E or full-size Mini PCI-E
- **Storage** CompactFlash® slot x 1
2.5" SATA HDD x 1 (Optional)
- **I/O** RS-232 x 2 (COM1, 2) with isolation
RS-422/485 x 1 (COM3) with isolation and auto data flow control
USB 2.0 x 2 (Host)
PS/2 x 1
- **DI/DO & backup SRAM** 8 x DI/DO with isolation and backup 1MB SRAM

LCD Display

- **Display Type** SVGA TFT LED LCD
- **Display Size** 10.4"
- **Max. Resolution** 800 x 600
- **Max. Colors** 262 K
- **Luminance cd/m²** 400
- **Viewing Angle (H/V°)** 120/100
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 400:1

Touchscreen

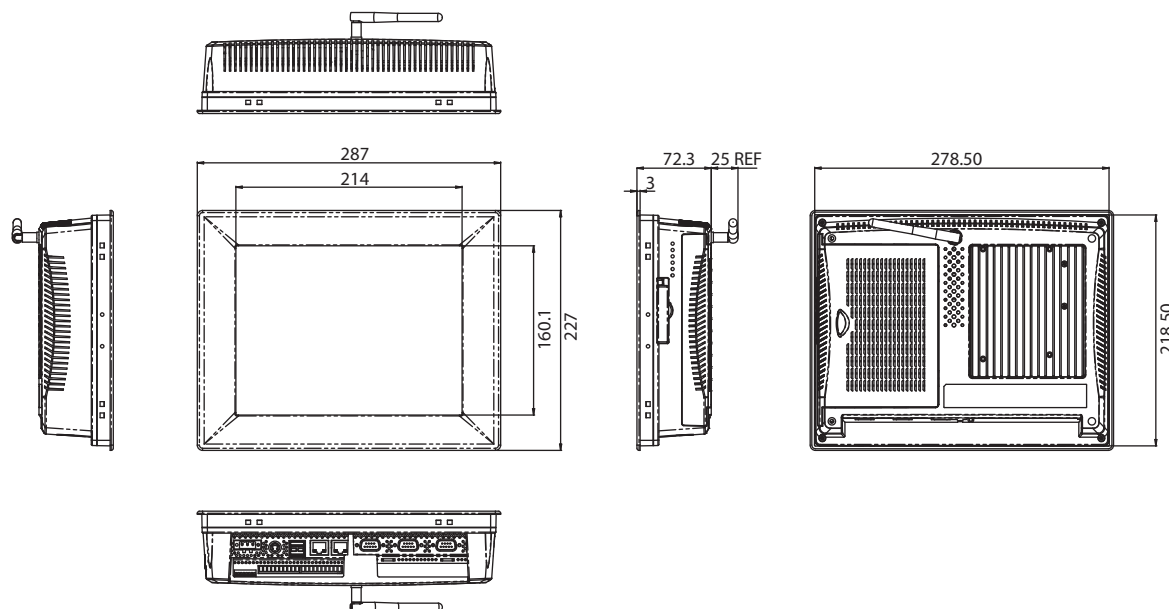
- **Lifespan** 10 million touches at single point
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: IP65
- **Operating Temperature** 0 ~ 55°C (32 ~ 131°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: 279.5±0.5x219.5±0.5mm (11.18" x 8.76")

CANopen (TPC-1071HCA model only)

▪ Controller	NXP SJA1000
▪ Connector	DB9 x 2
▪ Transceiver	TJA1042
▪ Protocol	CAN2.0 A/B
▪ Speed	1Mbps
▪ Signal Support	CAN_H, CAN_L, GND
▪ Interrupt Support	Legacy INT, MSI

Ordering Information

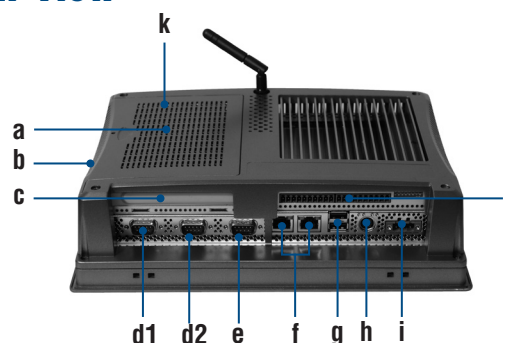
▪ TPC-1071H-D3AE	10.4" SVGA Touch Panel PC, D525 1.8 GHz, 4GB
▪ TPC-1071HCA-D3AE	TPC-1071H-D3AE with PCM-2680 CANopen Card

Accessories

▪ TPC-1000H-WMKE	TPC series wallmount kit from 10" to 17"
▪ TPC-1000H-SMKE	TPC series stand kit from 10" to 17"
▪ 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
▪ EWM-W139F01E	802.11 b/g/n, RT5390, 1T1R, Full-size Mini-PCIe
▪ 1750000318	EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384
▪ 1750003222	802.11b/g 5dBi Dipole Antenna
▪ 1750003418	Wireless Antenna AN2400-5901RS R/P SMA.M9dB

* VESA support via a wall mounting kit

Rear View



a. HDD	g. USB 2.0
b. CompactFlash	h. PS/2
c. PCI-E slot	i. Power Receptor
d1. COM3 (RS-422/485)	j. DI/O ports
d2. COM2(RS-232)	k. Mini PCI-E slot
e. COM1(RS-232)	
f. LAN (10/100/1000)	