

Automation Panel PCs

Touch Panel Computers

Touch Panel Computer Selection Guide

7-2

TPC-1780H 17" SXGA TFT LCD Core 2 Duo L7400 Touch Panel Computer

7-4

TPC-1770H 17" SXGA TFT LCD Celeron M Touch Panel Computer

TPC-1571H 15" XGA TFT LCD Intel Atom Dual-Core D525 Touch Panel Computer

7-6

TPC-1071H 10.4"/12.1" SVGA TFT LCD Intel Atom Dual-Core D525 Touch Panel Computer

7-8

TPC-1271H

TPC-671H 6.5" VGA LED LCD Intel Atom Z510 Touch Panel Computer

7-10

TPC-651H

TPC-1251H 5.7" VGA/12.1" SVGA/15" XGA TFT LCD Intel Atom Touch Panel Computers with Wide Operating Temperatures

7-12

TPC-1551H

TPC-650H 5.7" VGA/12.1" SVGA/15" XGA/17" SXGA TFT LCD Intel Atom Thin Client Computers

7-14

TPC-1250H

TPC-1550H

TPC-1750H

TPC-31T 3.5" QVGA TFT LCD TI AM3517 Touch Panel Computer

7-16

TPC-61T 5.7" QVGA TFT LCD TI AM3517 Touch Panel Computer

7-18

TPC Installation Accessories

Industrial Panel Computers

Industrial Panel Computer Selection Guide

7-19

IPPC-6152A

IPPC-6172A 15" XGA/17"/19" SXGA TFT LCD Core 2 Quad/Core Duo Industrial Panel PC with 2 x PCI Slots

7-20

IPPC-6192A

IPPC-9151G 15" XGA/17" SXGA LED backlight TFT LCD Intel Core i7/i5/i3 Celeron Mobile Processor Industrial Panel PC with 1x PCIe Slot

7-22

IPPC-9171G

IPPC-4001D 5.7" VGA TFT LCD 4U 19"/19" Half-sized Rack Industrial Panel PC with 14/8 Expansion Slots & Keyboard Drawer

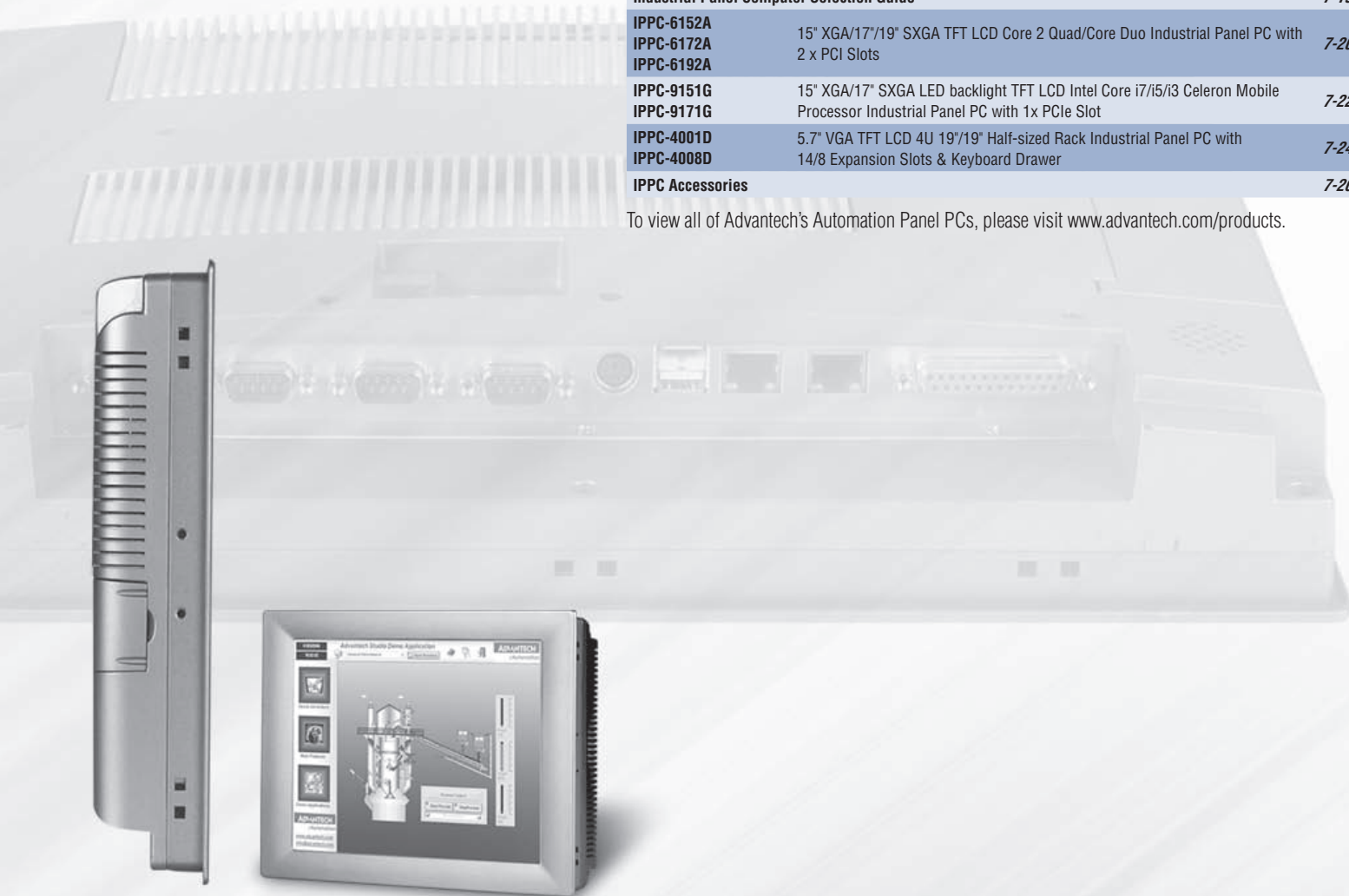
7-24

IPPC-4008D

IPPC Accessories

7-26

To view all of Advantech's Automation Panel PCs, please visit www.advantech.com/products.



Touch Panel Computer Selection Guide



Specifications		Model	TPC-1780H/ TPC-1770H	TPC-1571H	TPC-1271H	TPC-1071H	TPC-671H	TPC-651H/1251H/1551H
CPU			Core™ 2 Duo L7400 1.5 GHz/Intel® Celeron® M 1 GHz	Intel® Atom™ D525 1.8 GHz	Intel® Atom™ D525 1.8 GHz	Intel® Atom™ D525 1.8 GHz	Intel® Atom™ Z510 1.1 GHz	Intel® Atom™ Z520 1.33 GHz
Memory			2 GB DDR2 SDRAM (up to 4 GB DDR2 SDRAM)/1 GB DDR2 SDRAM	4 GB DDR3 SDRAM	4 GB DDR3 SDRAM	4 GB DDR3 SDRAM	1 GB DDR2 SDRAM	1 GB DDR2 SDRAM
Display	Type		SXGA TFT LCD	XGA TFT LCD	SVGA TFT LCD	SVGA TFT LCD	VGA TFT LCD	VGA/SVGA/XGA TFT LCD
	Size		17"	15"	12.1"	10.4"	6.5"	5.7"/12.1"/15"
	Max. Resolution		1280 x 1024	1024 x 768	800 x 600	800 x 600	640 x 480	640 x 480/ 800 x 600/1024 x 768
	Max. Colors		16.7 M	262 K	262 K	260 K	262 K	262 K
	Luminance (cd/m ²)		300	350	450	400	700	700/450/350
	Viewing Angle (H/V°)		160/160	160/140	160/140	120/100	160/140	160/140
	Backlight Life (hrs)		50,000	50,000	50,000	50,000	50,000	50,000
Touchscreen			8-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive	5-wire Resistive
Flash Memory			N/A	N/A	N/A	N/A	N/A	N/A
HDD			1 x Internal 2.5" SATA (optional)	1 x Internal 2.5" SATA (optional)	1 x Internal 2.5" SATA (optional)	1 x Internal 2.5" SATA (optional)	N/A	1 x 2.5" SATA Bundled with Extension HDD Kit (Optional)
Network (LAN)			10/100/1000Base-T x 2	10/100/1000Base-T x 2	10/100/1000Base-T x 2	10/100/1000Base-T x 2	10/100/1000Base-T x 1	10/100/1000Base-T x 2
I/O Ports			RS-232 x 3 VGA x 1 USB x 4 (Host) Audio x 1 (MIC-in x 1, Line-in x 1, Line-out x 1) PS/2 x 2 (KB, Mouse)	Serial Port x 3 (RS-232 x 2 and RS-422/485 x 1) USB x 2 (Host) PS/2 x 1 DI/DO x 8	Serial Port x 3 (RS-232 x 2 and RS-422/485 x 1) USB x 2 (Host) PS/2 x 1 DI/DO x 8	Serial Port x 3 (RS-232 x 2 and RS-422/485 x 1) USB x 2 (Host) PS/2 x 1 DI/DO x 8	Serial Port x 2 (RS-232 x 1 and RS-422/485 x 1) USB 2.0/1.1 x 2 (Host)	Serial Port x 2 (RS-232 x 1 and RS-422/485 x 1) USB x 2 (Host)
CompactFlash Slots			Type II x 1	Type II x 1	Type II x 1	Type II x 1	Type II x 1	Type II x 1
PCMCIA Slots			N/A	N/A	N/A	N/A	N/A	N/A
Expansion Slots			PCI-104 (Optional) RS-422/485 (Optional)	PCI-E x 1 or Mini PCI-E x 1	PCI-E x 1 or Mini PCI-E x 1	PCI-E x 1 or Mini PCI-E x 1	Mini PCI-E x 1	N/A
Power Input Voltage			18 ~ 32 V _{DC}	10 ~ 29 V _{DC}	10 ~ 29 V _{DC}	10 ~ 29 V _{DC}	18 ~ 32 V _{DC}	18 ~ 32 V _{DC}
Dimension			414 x 347.5 x 93 mm (16.3" x 13.68" x 3.66")	383 x 307 x 78.5 mm (15.08" x 12.09" x 3.09")	311 x 237 x 71.6 mm (12.24" x 9.33" x 2.82")	286 x 227 x 70.3 mm (11.26" x 8.94" x 2.76")	195 x 148 x 44.5 mm (7.68" x 5.83" x 1.75")	195 x 148 x 58 mm (7.68" x 5.83" x 2.28") 311 x 237 x 54 mm (12.24" x 9.33" x 2.12") 383 x 307 x 58.1 mm (15.08" x 12.09" x 2.29")
Weight (Net)			8 kg (17.64 lbs)	5.5 kg (12.13 lbs)	4.57 kg (10.07 lbs)	3.5 kg (7.72 lbs)	0.95 kg (2.1 lbs)	1.43 kg (3.15 lb)/ 2.5 kg (5.51 lb)/ 3 kg (6.61 lb)
Front Cover			Die-Cast Aluminum Alloy	Die-Cast Aluminum Alloy	Die-Cast Aluminum Alloy	Die-Cast Aluminum Alloy	ABS + PC	PC + ABS (TPC-651H)/ Die-cast Aluminum Alloy
Operating Temperature			0 ~ 45°C (32 ~ 113°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	-20 ~ 60°C (-4 ~ 140°F)
Ingress Protection (Front Panel)			NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65
Certification			BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL
Operating System			Windows XP/WES2009/ Windows CE 5.0/6.0 WES7(TPC-1780H) Linux(TPC-1770H)	Windows XP/ WES2009/WES7/ Windows CE 5.0/6.0/ Linux	Windows XP/ WES2009/WES7/ Windows CE 5.0/6.0/ Linux	Windows XP/ WES2009/WES7/ Windows CE 5.0/6.0/ Linux	Windows XP/ WES2009/WES7/ Windows CE 5.0/6.0/ Linux	Windows XP/ WES2009/WES7/ Windows CE 5.0/6.0/ Linux
Page			7-4	7-6	7-8	7-8	7-10	7-12

Selection Guide

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

NEW



NEW



NEW



TPC-1250H/1550H/1750H	TPC-650H	TPC-61T	TPC-31T	TPC-66SN/TPC-66T	TPC-30T/32T
Intel® Atom™ N270 1.6 GHz	Intel® Atom™ N270 1.6 GHz	TI AM3517 600 MHz	TI AM3517 600 MHz	Intel® PXA270 416 MHz/ Intel® PXA270 312 MHz	Intel® PXA270 312 MHz
2 GB DDR2 SDRAM	1 GB DDR2 SDRAM	DDR2 256 MB on board	DDR2 256 MB on board	64 MB SDRAM on board	64 MB SDRAM on board
SVGA/XGA/SXGA TFT LCD	VGA TFT LCD	QVGA TFT LCD	QVGA TFT LCD	QVGA CSTN LCD	QVGA TFT LCD
12.1"/15"/17"	5.7"	5.7"	3.5"	5.7"	3.5"
800 x 600/1024 x 768/ 1280 x 1024	640 x 480	320 x 240	320 x 240	320 x 240	320 x 240
262 K	262 K	64K	64K	64 K	64 K
450/350/350	700	800	200	400/300	200
160/140, 160/140, 170/160	160/140	160/140	120/110	100/55, 140/120	120/110
50,000	50,000	50,000	30,000	60,000 / 30,000	30,000
5-wire Resistive	5-wire Resistive	4-wire Resistive	4-wire Resistive	4-wire Resistive	4-wire Resistive
N/A	N/A	N/A	N/A	64 MB on board	32 MB on board
1 x 2.5" SATA Bundled with Extension HDD Kit (Optional)	N/A	N/A	N/A	N/A	N/A
10/100/1000Base-T x 2	10/100/1000Base-T x 1	10/100Base-T x 1	10/100Base-T x 1	10/100Base-T x 1	10/100Base-T x 1
Serial Port x 2 (RS-232 x 1, RS-422/485 x 1) USB x 2 (Host)	Serial Port x 2 (RS-232 x 2) USB x 2 (Host) PS/2 x 1	Serial Port x 3(RS-232 x 2, RS-422/RS-485 x 1) USB2.0 (Host) x 1 USB2.0 (Client) x 1	Serial Port x 1 (RS-232/RS-485 x 1) USB2.0 (Host) x 1	Full RS-232 x 2 TPC-66SN: 4-pin RS-232/485 x 1, USB x 2 (Host x 1, Client x 1) TPC-66T: RS-232/485 x 1, USB x 2 (Host x 1)	USB x 1 (Host) TPC-30T: RS-232/485 x 1 TPC-32T: CAN-Bus/RS-232 x 1
CFast x 1	Type II x 1	SD x 1	SD x 1	Type II x 1	SD x 1
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
18 ~ 28 V _{DC} , 18 ~ 32 V _{DC} (TPC-1750H)	18 ~ 28 V _{DC}	18 ~ 32 V _{DC}	18 ~ 32 V _{DC}	18 ~ 32 V _{DC}	8 ~ 28 V _{DC}
311 x 237 x 54mm (12.24" x 9.33" x 2.12") 383 x 307 x 58.1mm (15.08" x 12.09" x 2.29") 413.7 x 347.2 x 63.8 (16.28" x 13.68" x 2.5")	195 x 148 x 58mm (7.68" x 5.83" x 2.28")	195 x 148 x 44.4mm (7.68" x 5.83" x 1.75")	120.79 x 85.5 x 26.5mm (4.76" x 3.37" x 1.04")	195 x 148 x 44.4 (7.68" x 5.83" x 1.75")	120.8 x 85.5 x 26.5 (4.76" x 3.37" x 1.04")
2.5 kg (5.51 lb)/ 3 kg (6.61 lb)/ 3.5 kg (7.71 lb)	1.43 kg (3.15 lb)	0.8 kg (1.76 lbs)	0.25 kg (0.55 lbs)	0.8 kg (1.76 lbs)	0.25 kg (0.55 lbs)
Die-Cast Aluminum Alloy	PC + ABS	ABS	ABS	ABS	ABS
0 ~ 45°C (32 ~ 113°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)
NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65
BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL
Windows XP/WES2009/ WES7/ Windows CE 5.0/6.0/ Linux	Windows XP/WES2009/ WES7/ Windows CE 5.0/6.0/ Linux	Windows CE 5.0/6.0/ Linux	Windows CE 5.0/6.0/ Linux	Windows CE 5.0/6.0/ Linux	Windows CE 5.0/6.0/ Linux
7-14	7-14	7-16	7-16	online	online

TPC-1780H TPC-1770H

**17" SXGA TFT LCD Core™ 2 Duo
L7400 Touch Panel Computer**

**17" SXGA TFT LCD Celeron® M
Touch Panel Computer**



Features

- Intel® Core™ 2 Duo L7400 processor up to 1.5 GHz on board/
Intel® Celeron® M processor up to 1 GHz on board
- 17" SXGA TFT LCD
- Compact design with die-cast Al alloy front bezel
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Supports Microsoft® Windows® XP/XPe/WES7 (TPC-1780H only)
- Downward I/O cabling
- Gigabit Ethernet and Fast Ethernet supported

Introduction

With a high quality TFT LCD display, TPC-1780H/TPC-1770H is designed with the Intel® Core™ 2 Duo L7400/Intel® Celeron® M processor as its core. The Intel® Core™ 2 Duo/Intel® Celeron® M has low power consumption and 1.5/1 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-1780H/TPC-1770H a durable and reliable platform. For applications where spindle-free storage is not critical, a fast-access HDD module can be used. The rich I/O portfolio meets diverse requests.

Specifications

General

- **BIOS** Award® 4 MB
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 414 x 347.5 x 93 mm (16.3" x 13.68" x 3.66")
- **Enclosure** Front bezel: Die-cast Aluminum alloy
Back housing: ABS + PC
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Microsoft® WES 7/XP/WES/WinCE 5.0/6.0
(WES7 only for TPC-1780H)
- **Power Consumption** 100 W Typical
- **Power Input** 18 ~ 32 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** 8 kg (17.64 lbs)

System Hardware

- **CPU** TPC-1780H: Intel® Core™ 2 Duo L7400 1.5 GHz
TPC-1770H: Intel® Celeron® M 1 GHz 512k cache
- **Chipset** TPC-1780H: Intel® 945GME + ICH7
TPC-1770H: Intel® 915GME + ICH6M
- **Memory** TPC-1780H: 2GB SO-DIMM DDR2 SDRAM, Up to 4 GB
TPC-1770H: 1GB 240pin DIMM DDR2 SDRAM
- **LAN** 10/100/1000Base-T x 2
- **Expansion Slots** PCI-104 (Up to 1 unit, Optional)
RS-422/485 (Optional)
- **Storage** CompactFlash® slot x 1
2.5" SATA HDD x 1(optional)
- **I/O** RS-232 x 3 (COM1, 3, 4)
USB 2.0 x 4 (Host)
PS/2 Keyboard x 1, PS/2 Mouse x 1
VGA x 1
MIC-in x 1, Line-in x 1, Line-out x 1

LCD Display

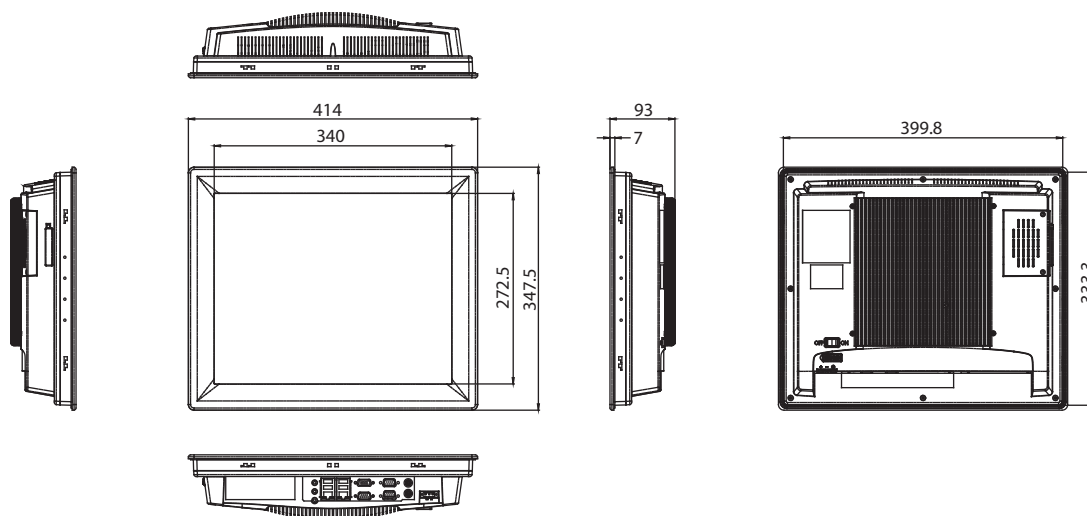
- **Display Type** SXGA TFT LCD
- **Display Size** 17"
- **Max. Resolution** 1280 x 1024
- **Max. Colors** 16.7 M
- **Luminance cd/m²** 300
- **Viewing Angle (H/V°)** 160/160
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 800:1

Touchscreen

- **Lifespan** 1 million touches at single point
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 8-wire, analog resistive
- **Environment**
- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 45°C (32 ~ 113°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: 400.8 x 334.3 mm (16.03" x 13.37")

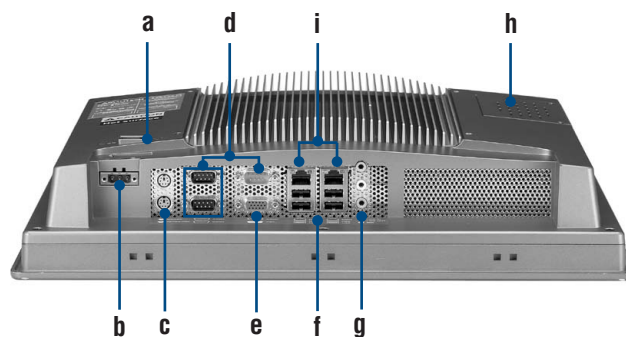
Ordering Information

- **TPC-1780H-P3AE** 17" SXGA Touch Panel PC, Core™ 2 Duo L7400, 2 GB
- **TPC-1770H-C2BE** 17" SXGA Touch Panel PC, Celeron® M 1 GHz, 1 GB

Accessories

- **TPC-1000H-WMKE** TPC series wallmount kit from 10" to 17"
- **TPC-1000H-SMKE** TPC series stand kit from 10" to 17"
- **PWR-244-AE** 24V 110W AC-DC Power Adapter

Rear View



- a. Power Switch, Fuse
- b. Power Receptor
- c. PS/2
- d. COM (RS-232)
- e. VGA
- f. USB 2.0
- g. Audio (Line-In, Line-Out, MIC)
- h. 2.5" SATA HDD Housing
- i. LAN (10/100/1000)

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

TPC-1571H

15" XGA TFT LCD Intel® Atom™ Dual-Core D525 Touch Panel Computer



Features

- Intel® Atom™ processor up to 1.8 GHz
- 15" XGA TFT LCD
- Compact design with die-cast Al front bezel
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- PCIe and Mini PCIe expansion support
- 8 DI/O and backup SRAM support
- Supports DDR3 SDRAM
- Serial port isolation protection
- Automatic data flow control RS-485
- Gigabit Ethernet supported
- Supports Microsoft® WES7/XP/WES/WinCE

Introduction

With a high quality TFT LCD display, TPC-1571H is designed with the Intel® Atom™ D525 processor as its core. The Intel® Atom™ has low power consumption and 1.8 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-1571H a durable and reliable platform. For applications where spindle-free storage is not critical, a fast-access HDD module can be used. The rich I/O portfolio meets diverse requests.

Specifications

General

- **BIOS** AMI
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 383 x 307 x 78.5 mm (15.08" x 12.09" x 3.09")
- **Enclosure** Front bezel: Die-cast Aluminum alloy
Back housing: ABS + PC
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Microsoft® WES7/Win7 32/64bit/XP/WES/
WinCE 5.0/6.0
- **Power Consumption** 21 W (typical)
- **Power Input** 10~29 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** 5.5 kg (12.13 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** Full-size PCI-E or 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 2.0/1.1 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** XGA TFT LCD
- **Display Size** 15"
- **Max. Resolution** 1024 x 768
- **Max. Colors** 262 K
- **Luminance cd/m²** 350
- **Viewing Angle (H/V°)** 160/140
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 700:1

Touchscreen

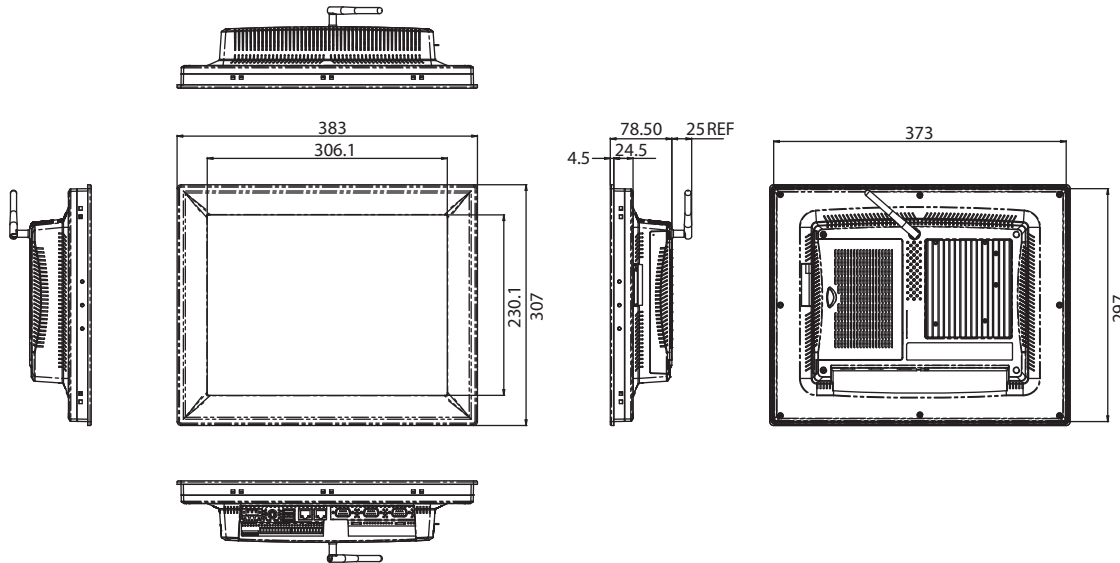
- **Lifespan** 10 million touches at single point
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, 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: 374.5 x 298.5 mm (14.98" x 11.94")

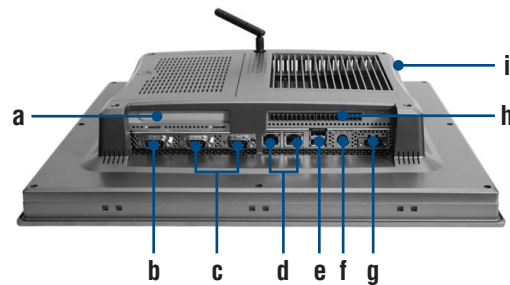
Ordering Information

- **TPC-1571H-D3AE** 15" XGA Touch Panel PC, D525 1.8 GHz, 4GB

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
- **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-PCle
- **PWR-247-AE** 50W DC 24V/2.3A Output Power Supply
- **1750003318** 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

Rear View



- a. PCI-E slot
- b. COM (RS-422/485)
- c. COM (RS-232)
- d. LAN (10/100/1000)
- e. USB 2.0
- f. PS/2
- g. Power Receptor
- h. DI/O ports
- i. CompactFlash

* Windows XP supports 10 languages with MUI. (English, Traditional Chinese, Simplified Chinese, French, German, Spanish, Russian, Italian, Japanese and Korean)

TPC-1071H TPC-1271H

10.4"/12.1" SVGA TFT LCD Intel® Atom™ Dual-Core D525 Touch Panel Computer



Features

- Intel® Atom™ processor up to 1.8 GHz
- 10.4"/12.1" SVGA TFT LCD
- Compact design with die-cast Al front bezel
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- PCIe and Mini PCIe expansion support
- 8 DI/O and backup SRAM support
- Supports DDR3 SDRAM
- Serial port isolation protection
- Automatic data flow control RS-485
- Gigabit Ethernet supported
- Supports Microsoft® WES7/XP/WES/WinCE

Introduction

With a high quality TFT LCD display, TPC-1071H/1271H are designed with the Intel® Atom™ D525 processor as its core. The Intel® Atom™ has low power consumption and 1.8 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-1071H/1271H are durable and reliable platforms. For applications where spindle-free storage is not critical, a fast-access HDD module can be used. The rich I/O portfolio meets diverse requests.

Specifications

General

- **BIOS** AMI
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** TPC-1071H: 286 x 227 x 70.3 mm (11.26" x 8.94" x 2.76")
TPC-1271H: 311 x 237 x 71.6 mm (12.24" x 9.33" x 2.82")
- **Enclosure** Front bezel: Die-cast Aluminum alloy
Back housing: ABS + PC
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Microsoft® WES7/Win7 32/64bit/XP/WES/WinCE5.0/6.0
- **Power Consumption** TPC-1071H: 17W/
TPC-1271H: 20W (typical)
- **Power Input** 10~29 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** TPC-1071H: 3.5 kg (7.72 lbs)
TPC-1271H: 4.57 kg (10.07 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** Full-size PCI-E or 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 2.0/1.1 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 LCD
- **Display Size** 10.4"
- **Max. Resolution** 800 x 600
- **Max. Colors** 262 K
- **Luminance cd/m²** TPC-1071H: 400
TPC-1271H: 450
- **Viewing Angle (H/V°)** TPC-1071H: 120/100
TPC-1271H: 160/140
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** TPC-1071H: 400:1
TPC-1271H: 700:1

Touchscreen

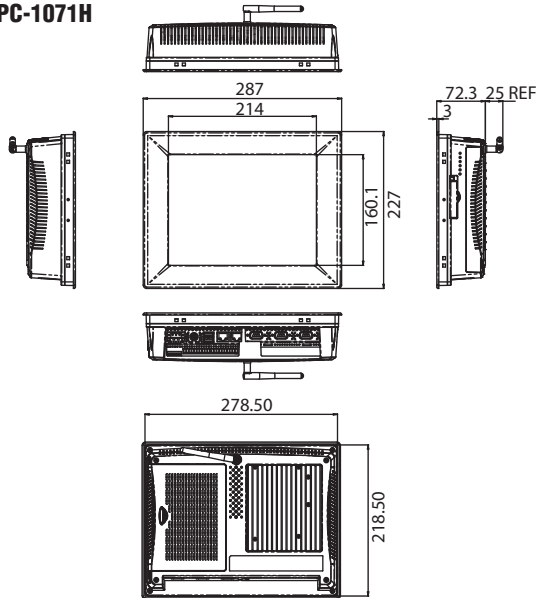
- **Lifespan** 10 million touches at single point
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, 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)

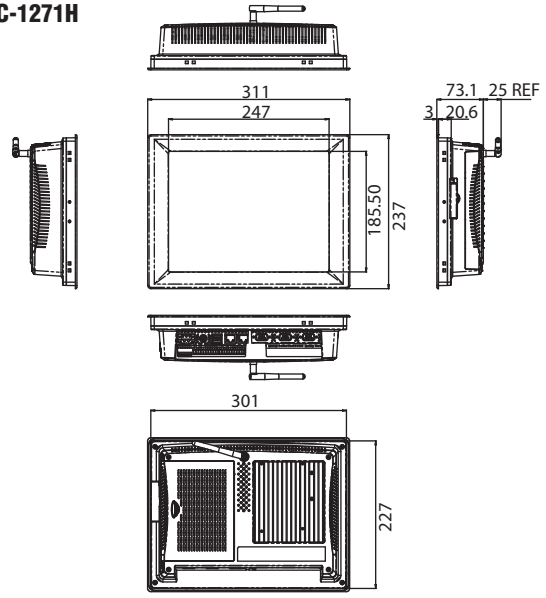
Dimensions

TPC-1071H



Panel Cut-out Dimensions: 279.5 x 219 mm (11.18" x 8.76")

TPC-1271H



Panel Cut-out Dimensions: 302 x 228 mm (12.08" x 9.12")

Unit: mm

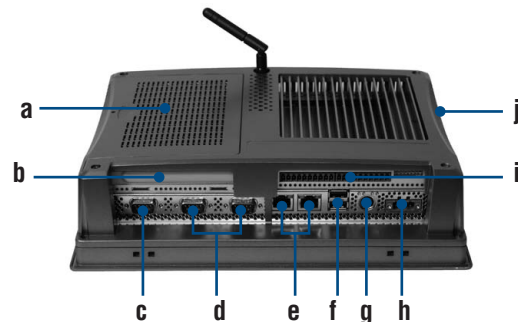
Ordering Information

- **TPC-1071H-D3AE** 10.4" SVGA Touch Panel PC, D525 1.8 GHz, 4 GB
- **TPC-1271H-D3AE** 12.1" SVGA Touch Panel PC, D525 1.8 GHz, 4 GB

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
- **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
- **PWR-247-AE** 50W DC 24V/2.3A Output Power Supply
- **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

Rear View



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

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

TPC-671H

6.5" VGA LED LCD Intel® Atom™ Z510 Touch Panel Computer



Features

- Intel® Atom™ processor up to 1.1 GHz
- 6.5" VGA TFT LCD
- Super slim and compact design with ABS+PC housing
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Full-size Mini PCIe expansion support
- Serial port isolation protection
- Automatic data flow control RS-485
- Gigabit Ethernet supported
- Supports Microsoft® WES7/XP/WES/WinCE

Introduction

With a high quality TFT LCD display, TPC-671H is designed with the Intel® Atom™ Z510 processor as its core. The Intel® Atom™ has low power consumption and 1.1 GHz operating frequency. This system is fanless although the kernel is powerful. In addition, spindle-free storage makes the TPC-671H a durable and reliable platform. Supports Mini-PCIe expansion to bundle with IoT-Ready and Communication module to meet more applications in outdoor and iTerminal Gateway.

Specifications

General

- **BIOS** Award®
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 195 x 148 x 44.5 mm (7.68" x 5.83" x 1.75")
- **Enclosure** ABS + PC
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Microsoft® WES7/Win7 32bit/XP/WES/ WinCE5.0/6.0
- **Power Consumption** 6.6W (Typical), 9W (Full load)
- **Power Input** 18~32 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** 0.95 kg (2.1 lbs)

System Hardware

- **CPU** Intel® Atom™ Z510 1.1GHz with 512KB cache
- **Chipset** US15WP
- **Memory** 1GB SO-DIMM DDR2 SDRAM
- **LAN** 10/100/1000Base-T x 1
- **Expansion Slots** Full-size Mini PCI-E
- **Storage** CompactFlash® slot x 1
- **I/O** RS-232 x 1 (COM1)
RS-422/485 x 1 (COM2) with isolation and auto data flow control
USB 2.0/1.1 x 2 (Host)

LCD Display

- **Display Type** VGA TFT LCD
- **Display Size** 6.5"
- **Max. Resolution** 640 x 480
- **Max. Colors** 262 K
- **Luminance cd/m²** 700
- **Viewing Angle (H/V°)** 160/140
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 600:1

Touchscreen

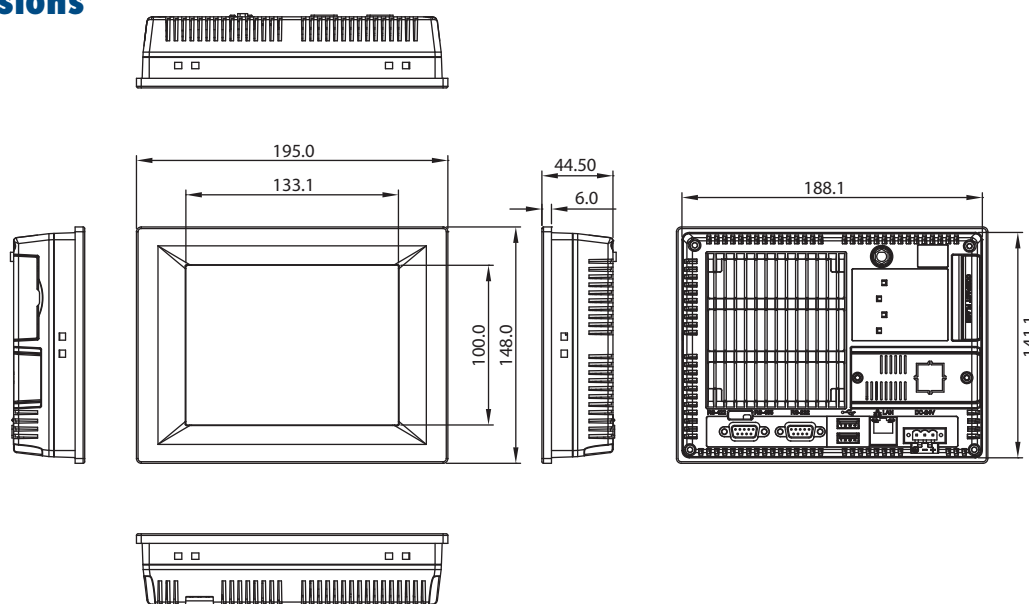
- **Lifespan** 36 million touches at single point (finger hitting rate by 250g at 2 times per second)
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

Environment

- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Vibration Protection** 2 Grms (5 ~ 500 Hz)
(Operating, random vibration)

Dimensions

Unit: mm



Panel Cut-out Dimensions: 188.4 x 141.4mm (7.54" x 5.66")

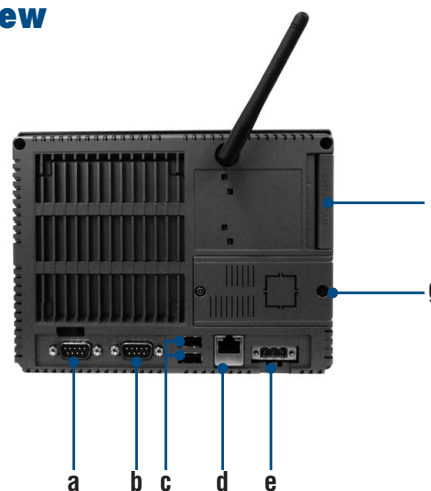
Ordering Information

- **TPC-671H-Z2AE** 6.5" VGA Touch Panel, Z510 1.1GHz, 1GB

Accessories

- **1757003463** 100-240V_{AC} to 19V_{DC} 90W Power Adapter
- **1700001524** Power Cord 3P UL 10A 125V 1.8M
- **1702002605** Power cable EU Plug 1.8M
- **1702031801** Power cable UK Plug 1.8M
- **1702031836** Power cable China/Australia Plug 1.8M
- **1750000318** EMI Antenna 2DBI 2.4GHz SMA CONN for ARK-3384
- **PWR-247-AE** 50W DC 24V/2.3A Output Power Supply
- **EWM-W139F01E** 802.11 b/g/n, RT5390, 1T1R, Full-size Mini-PCIe

Rear View



- a. COM (RS-422/485)
- b. COM (RS-232)
- c. USB 2.0
- d. LAN (10/100/1000)

- e. Power Receptor
- f. Compact Flash
- g. Mini PCI-E slot

* Windows XP supports 10 languages with MUI. (English, Traditional Chinese, Simplified Chinese, French, German, Spanish, Russian, Italian, Japanese and Korean)

TPC-651H TPC-1251H TPC-1551H

5.7" VGA/12.1" SVGA/15" XGA TFT LCD Intel® Atom™ Touch Panel Computers with Wide Operating Temperatures

NEW



Features

- Intel® Atom™ processor (up to 1.33 GHz)
- 5.7" VGA/12.1" SVGA/15" XGA TFT LED backlight LCDs
- -20 ~ 60°C wide operating temperature
- Compact design with die-cast Al alloy front bezel
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Supports Microsoft® Windows WES7/XP/XPe/CE
- Dual Gigabit Ethernet supported
- Isolation Protection for Serial ports
- Energy Star approved

Introduction

With a high quality TPC product line, TPC extends its Touch Panel Computer family with Intel® Atom™ platform for 5.7", 12.1" & 15". They are designed with Intel® Atom™ eMenlow XL processor as its core. The Intel® Atom™ has low power consumption and wide operating temperature. This system is fanless, slim design and the front bezel is die-cast Al alloy material. This product also provides a -20 ~ 60°C wide operating temperature solution and complete isolation protection for its serial ports. TPC series are durable and reliable platform.

Specifications

General

- **BIOS** Award® 4 MB
- **Certifications** BSMI, CCC, CE, FCC Class A, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)** 651H: 195 x 148 x 58 mm (7.68" x 5.83" x 2.28")
1251H: 311 x 237 x 54 mm (12.24" x 9.33" x 2.12")
1551H: 383 x 307 x 58.1 mm (15.08" x 12.09" x 2.29")
- **Enclosure** TPC-651H Front Bezel: PC + ABS
1251H/1551H Front bezel: Die-cast Aluminum alloy
Back housing: SECC
- **Mounting** Desktop, Wall or Panel Mount
- **OS Support** Windows XP/WES7/XPe/CE/Linux
- **Power Consumption** 17 W/35 W/40 W (typical)
- **Power Input** 18 ~ 32 V_{DC}
- **Watchdog Timer** 1 ~ 255 sec (system)
- **Weight (Net)** 1.43 kg (3.15 lb)/2.5 kg (5.51 lb)/3 kg (6.61 lb)

System Hardware

- **CPU** Intel® Atom™ 1.33 GHz with 512KB cache
- **Chipset** eMenlow XL + Poulsbo
- **Memory** 1GB SO-DIMM DDR2 667 SDRAM
Up to 2GB (One channel)
- **LAN** 10/100/1000Base-T x 2
- **Storage** CompactFlash® slot x 1
2.5" SATA HDD bundled with extension HDD kit x 1 (optional)
- **I/O** RS-232 x 1 (with isolation)
RS-422/485 x 1 (with isolation)
USB 2.0 x 2 (Host)

LCD Display

- **Display Type** VGA/SVGA/XGA TFT LED LCD
- **Display Size** 5.7"/12.1"/15"
- **Max. Resolution** 640 x 480/800 x 600/1024 x 768
- **Max. Colors** 262 K
- **Luminance cd/m²** 700/450/350
- **Viewing Angle (H/V°)** 160/140
- **Backlight Life** 50,000 hrs
- **Contrast Ratio** 800:1/700:1/700:1

Touchscreen

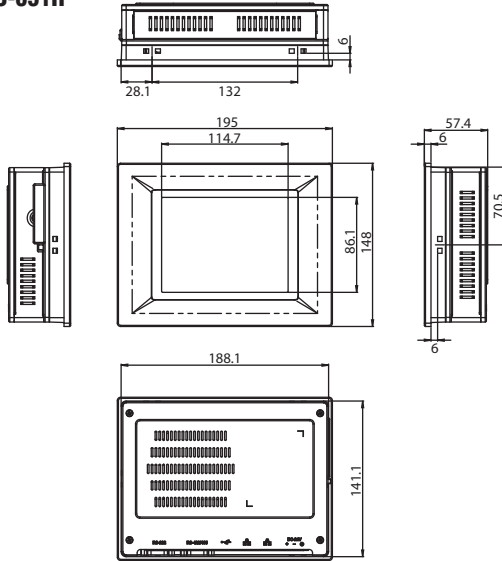
- **Lifespan** 10 million touches at single point
- **Light Transmission** Above 75%
- **Resolution** Linearity
- **Type** 5-wire, analog resistive

Environment

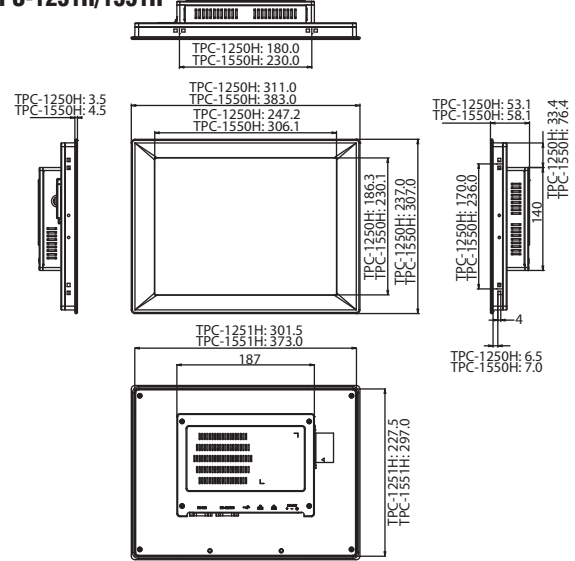
- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Storage Temperature** -30 ~ 80°C (-22 ~ 176°F)
- **Vibration Protection** 2 Grms (5 ~ 500 Hz)
(Operating, random vibration)

Dimensions

TPC-651H



TPC-1251H/1551H



Unit: mm

Panel Cut-out Dimensions: TPC-651H: 189.1 x 142.1 mm (7.56" x 5.68")
 TPC-1251H: 302.5 x 228.5 mm (12.1" x 9.14")
 TPC-1551H: 374.5 x 298.5 mm (14.98" x 11.94")

Ordering Information

- **TPC-651H-Z2AE** 5.7" VGA Touch Panel PC, Atom 1.33GHz, 1GB
- **TPC-1251H-Z2AE** 12.1" SVGA Touch Panel PC, Atom 1.33GHz, 1GB
- **TPC-1551H-Z2AE** 15" XGA Touch Panel PC, Atom 1.33GHz, 1GB

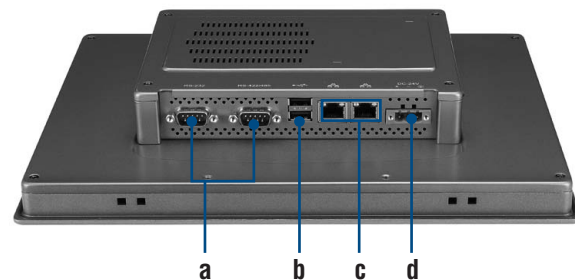
Accessories

- **TPC-1000H-WMKE** TPC series wallmount kit from 10" to 17"
- **TPC-1000H-SMKE** TPC series stand kit from 10" to 17"
- **TPC-651H-EHKE** TPC-651H/1251H/1551H Extension HDD Kit
- **PWR-247-AE** 24 V 50 W AC-DC Power Adapter
- **1702002600** Power Cord 3P UL/CSA(USA) 125V 10A 1.83M

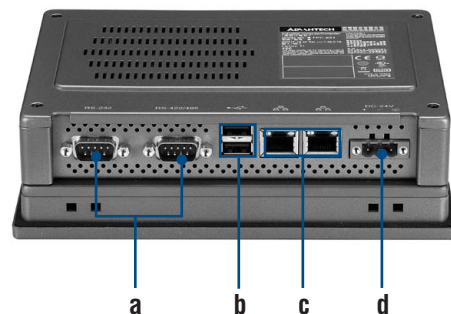
* Stand and Wall mount kits not compatible with HDD extension kit.

Rear View

TPC-1251H/1551H



TPC-651H



- a. COM (RS-232, RS-422/485)
- b. USB 2.0
- c. LAN (10/100/1000)
- d. Power Receptor

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

TPC-650H TPC-1250H TPC-1550H TPC-1750H

5.7" VGA/12.1" SVGA/15" XGA/17" SXGA TFT LCD Intel® Atom™ Thin Client Computers



Features

- Intel® Atom™ N270 1.6 GHz processor
- 5.7" VGA/12.1" SVGA/15" XGA/17" SXGA TFT LCD
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Supports Microsoft® Windows XP/XPe/CE
- Windows CE 5.0/6.0 with Java Script ready
- Supports Linux OS with Firefox and Java Script plugins
- Gigabit Ethernet supported
- Energy Star approval

Introduction

With a high quality TPC product line, TPC extends its Touch Panel Computer family with Intel® Atom™ platform for 5.7", 12.1", 15" and 17". TPC thin client is designed with Intel® Atom™ 1.6 GHz processor as its core. The Intel® Atom™ has low power consumption and 1.6 GHz operating frequency. This system is fanless, slim design for Web-based terminal solutions, so JavaScript is included in the Windows operating system. For Linux systems, we provide Mozilla Firefox.

Specifications

General

- BIOS** Award® 4 MB
- Certifications** BSMI, CCC, CE, FCC Class A, UL
- Cooling System** Fanless design
- Dimensions (W x H x D)** 650H: 195 x 148 x 58 mm (7.68" x 5.83" x 2.28")
1250H: 311 x 237 x 54 mm (12.24" x 9.33" x 2.12")
1550H: 383 x 307 x 58.1 mm (15.08" x 12.09" x 2.29")
1750H: 413.7 x 347.2 x 63.8 (16.28" x 13.68" x 2.5")
- Enclosure** TPC-650H Front bezel: PC + ABS
TPC-1250H/1550H/1750H front bezel: Die-cast aluminum alloy
Back housing: SECC
- Mounting** Desktop, Wall or Panel Mount
- OS Support** Microsoft® Windows® 7/XPE/WES
Windows CE 5.0/6.0 with Java Script
Linux with Firefox explorer and Java Script plugin
- Power Consumption** 17 W/35 W/40 W (typical)
- Power Input** 18 ~ 28 V_{DC}, 18 ~ 32 V_{DC} (TPC-1750H only)
- Watchdog Timer** 1 ~ 255 sec (system)
- Weight (Net)** 1.43 kg (3.15 lb)/2.5 kg (5.51 lb)/3 kg (6.61 lb)/3.5 kg (7.71 lb)

TPC-1250H/1550H/1750H: RS-232 x1, RS-422/485 x1
USB 2.0 x 2 (Host)
PS/2 x 1 (TPC-650H only)

LCD Display

- Display Type** VGA/SVGA/XGA TFT LED LCD
- Display Size** 5.7"/12.1"/15"/17"
- Max. Resolution** 640 x 480/800 x 600/1024 x 768/1280 x 1024
- Max. Colors** 262 K
- Luminance cd/m²** 700/450/350/350
- Viewing Angle (H/V°)** 160/140; 170/160 (for 17")
- Backlight Life** 50,000 hrs
- Contrast Ratio** 800:1/700:1/700:1/1000:1

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: NEMA4, IP65
- Operating Temperature** 0 ~ 45°C (32 ~ 113°F)
- Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection** 2 Grms (5 ~ 500 Hz)
(Operating, random vibration)

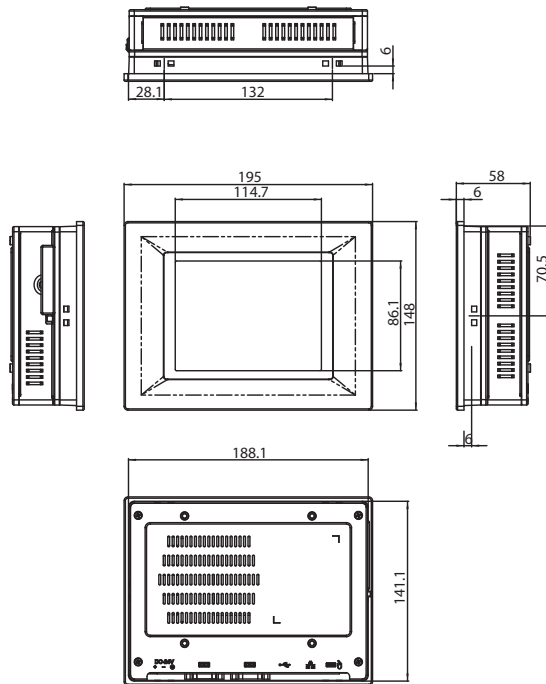
System Hardware

- CPU** Intel® Atom™ N270 1.6 GHz
- Chipset** Intel® 945GSE+ICH7M
- Memory** 2GB SO-DIMM DDR2 667 SDRAM
1GB SO-DIMM DDR2 667 SDRAM (TPC-650H only)
- LAN** 10/100/1000Base-T x 2, (TPC-650H with One Giga LAN)
- Storage** CompactFlash® (TPC-650H only)/CFast slot x 1
2.5" SATA HDD bundled with extension HDD kit x 1
(optional, TPC-650H not included)
- I/O** TPC-650H: RS-232 x 2 (COM1, 2)

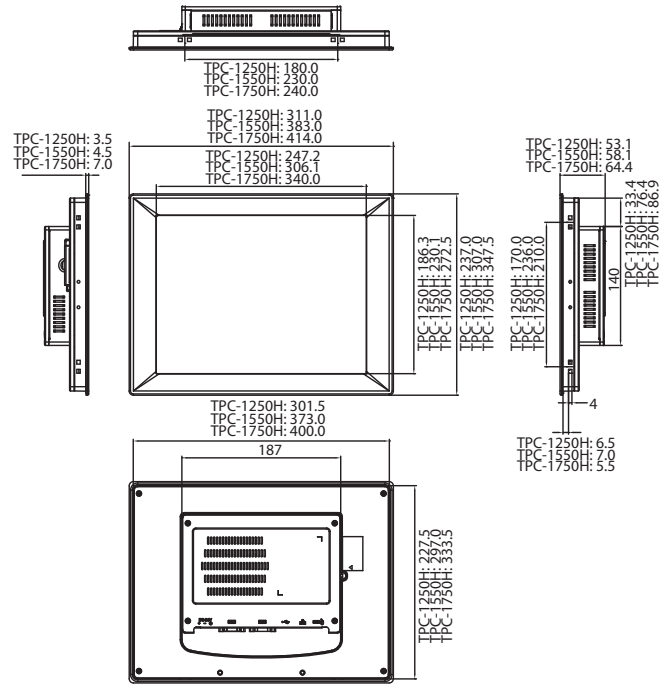
TPC-650H/1250H/1550H/1750H

Dimensions

TPC-650H



TPC-1250H/1550H/1750H



Unit: mm

Panel Cut-out Dimensions:
 TPC-650H: 189.1 x 142.1 mm (7.56" x 5.68")
 TPC-1250H: 302.5 x 228.5 mm (12.1" x 9.14")
 TPC-1550H: 374.5 x 298.5 mm (14.98" x 11.94")
 TPC-1750H: 400.8 x 334.3 mm (16.03" x 13.37")

Ordering Information

- TPC-650H-N2AE 5.7" VGA Touch Panel PC, Atom™ N270 1.6GHz, 1GB
- TPC-1250H-N2BE 12.1" SVGA Touch Panel PC, Atom™ N270 1.6GHz, 2GB
- TPC-1550H-N2BE 15" XGA Touch Panel PC, Atom™ N270 1.6GHz, 2GB
- TPC-1750H-N2BE 17" XGA, Touch Panel PC, Atom™ N270 1.6GHz, 2GB

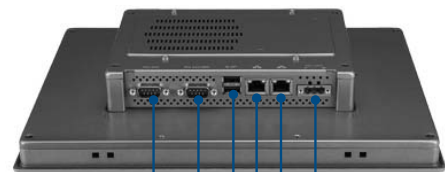
Accessories

- TPC-1000H-WMKE TPC series wallmount kit from 10" to 17"
- TPC-1000H-SMKE TPC series stand kit from 10" to 17"
- TPC-651H-EHKE TPC-651H/1251H/1551H Extension HDD Kit
- PWR-247-AE 24 V 50 W AC-DC Power Adapter
- 1702002600 Power Cord 3P UL/CSA(USA) 125V 10A 1.83M

* Stand and Wall mount kits not compatible with HDD extension kit

Rear View

TPC-1250H/1550H/1750H



- a. COM (RS-232, RS-422/485)
- b. USB 2.0
- c. LAN (10/100/1000)
- d. Power Receptor

TPC-650H



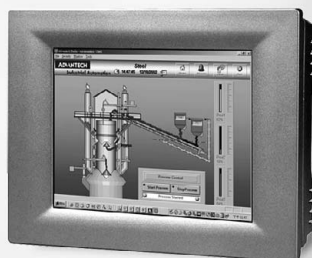
- a. Power Receptor
- b. COM (RS232 x 2)
- c. USB 2.0
- d. LAN (10/100/1000)
- e. PS/2

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

TPC-31T TPC-61T

3.5"/5.7" QVGA TFT LCD TI AM3517 Touch Panel Computer

NEW



Features

- TI AM3517 processor on board
- 3.5"/5.7" QVGA TFT LCD
- Super slim and compact design with plastic housing
- Fanless cooling system
- NEMA4/IP65 compliant front panel
- Built-in micro SD card with Windows® CE OS
- 1 x SD card slot
- Automatic data flow control RS-485

Introduction

The TPC-31T/61T model is a compact platform without redundant functions, and has been designed for small-sized operator interface applications. It has a 3.5"/5.7" TFT LCD display which is a cost effective choice for a limited budget. Its RISC kernel, the TI AM3517 processor consumes minimum power without sacrificing performance. The TPC-61T has a 10/100Base-T Ethernet port offering solid communication ability and comes bundled with a Windows® CE OS that supports Thin-Client solutions. The built-in Windows CE OS platform lets the TPC-61T become an Open HMI solution for system integration.

Specifications

General

- **Certifications** BSMI, CCC, CE, FCC, UL
- **Cooling System** Fanless design
- **Dimensions (W x H x D)**
 - TPC-31T: 120.79 x 85.5 x 26.5 mm (4.76" x 3.37" x 1.04")
 - TPC-61T: 195 x 148 x 44.4 mm (7.68" x 5.83" x 1.75")
- **Enclosure** ABS
- **Mounting** Panel
- **OS Support** Windows CE 6.0 (English Version)
- **Power Consumption** 8 W/12 W (typical)
- **Power Input** 18 ~ 32 V_{DC}
- **Watchdog Timer** Programmable as 250 ms, 500 ms, 1 second
- **Weight (Net)** 0.25 kg (0.55 lbs)/0.8 kg (1.76 lb)

System Hardware

- **CPU** TI AM3517
- **Memory** DDR2 256MB on board
- **LAN** 10/100Base-T x 1
- **Storage** 512MB on board micro SD card
1 x SD Card slot
1MB FRAM for Data back-up (optional)
- **I/O**
 - TPC-31T: RS-232/RS-485 X1 with auto data flow control, USB 2.0(Host) x 1
 - TPC-61T: RS-232 x 2 (COM1,2) RS-422/RS-485 x 1 (COM 3) with auto data flow control, USB2.0 (Host) x 1, USB2.0 (Client) x 1

LCD Display

- **Display Type** QVGA TFT LCD
- **Display Size** 3.5"/5.7"
- **Max. Resolution** 320 x 240
- **Max. Colors** 64 K
- **Luminance cd/m²** 200/800
- **Viewing Angle (H/V)** 120/110; 160/140
- **Backlight Life** 30000/50000 hrs
- **Contrast Ratio** 300:1/800:1

Touchscreen

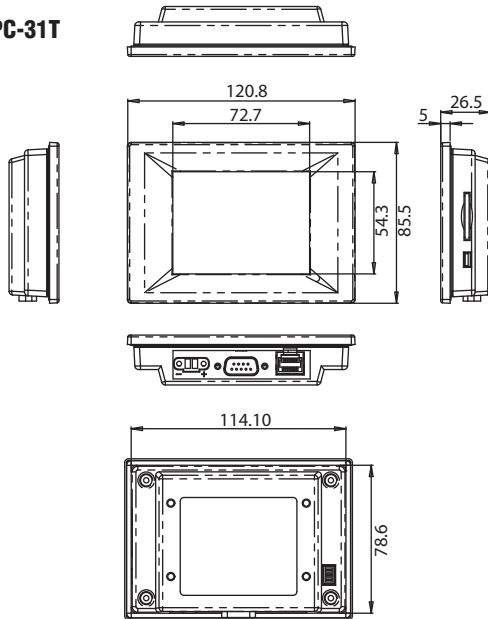
- **Lifespan** 1 million times with an 8mm diameter finger of silicone rubber
- **Light** Transmission Above 80%
- **Resolution** Linearity
- **Type** 4-wire, analog resistive

Environment

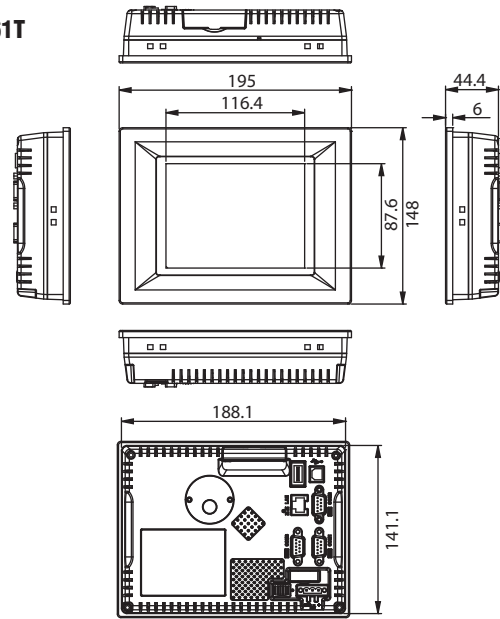
- **Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- **Ingress Protection** Front panel: NEMA4, IP65
- **Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- **Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- **Vibration Protection** 1 Grms (5 ~ 500 Hz)

Dimensions

TPC-31T



TPC-61T



Unit: mm

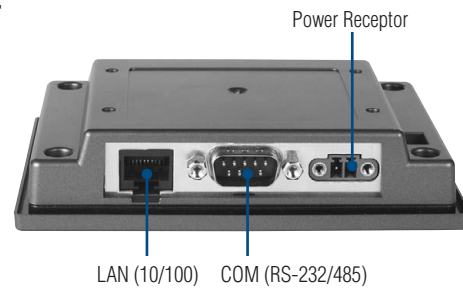
Panel Cut-out Dimensions: TPC-31T: 115 x 79.5 mm (4.6" x 3.18")
TPC-61T: 189 x 142 mm (7.56" x 5.68")

Ordering Information

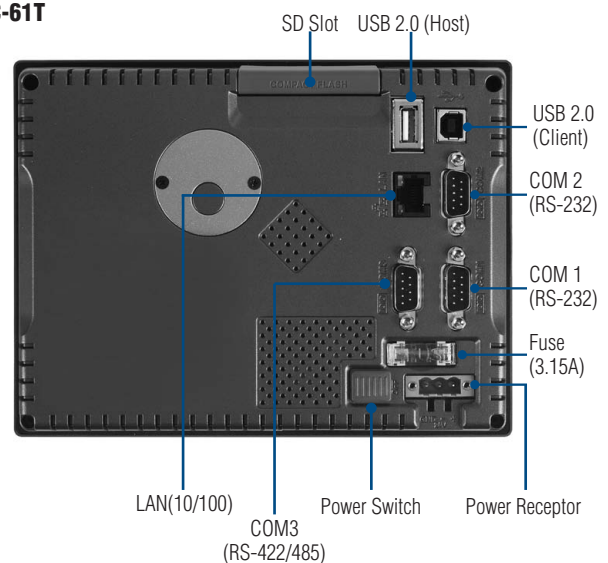
- **TPC-31T-E3AE** 3.5" QVGA Touch Panel PC, TI AM3517 600 MHz, 256 MB
- **TPC-61T-E3AE** 5.7" QVGA Touch Panel PC TI AM3517 600 MHz, 256 MB
- **PWR-247-AE** 24 V 50 W AC-DC Power Adapter

Rear View

TPC-31T



TPC-61T



- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

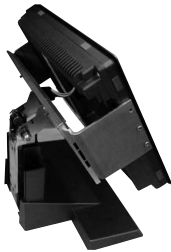
TPC Installation Accessories

Introduction

Advantech's Touch Panel Computers have been designed to be slim and compact so they can be installed into all kinds of environments. They can be wallmounted, panel mounted or simply placed on a desktop with an stand. Standard mounting holes and features make a wide range of mounting options available.

Ordering Information

- **TPC-1000H-WMKE** TPC series wallmount kit from 10" to 17"
- **TPC-1000H-SMKE** TPC series stand kit from 10" to 17"
- **TPC-1270H-EPKE** TPC Series PC/PCI-104 extension kit
- **TPC-651H-EHKE** TPC-651H/1251H/1551H extension HDD kit
- **PWR-247-AE** 24 V 50 W AC-DC power adapter



Stand Kit



Wallmount kit



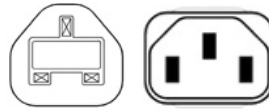
TPC-1270H-EPKE



1702002600
Power Cable US Plug 1.8 M



1702002605
Power Cable EU Plug 1.8 M



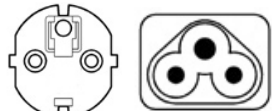
1702031801
Power Cable UK Plug 1.8 M



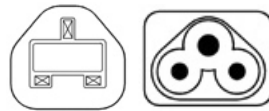
1702031836
Power Cable China/Australia
Plug 1.8 M



1700001524
Power Cable US Plug 1.8 M



170203183C
Power Cable EU Plug 1.8 M



170203180A
Power Cable UK Plug 1.8 M

- 1702002600, 1702301801, 1702002605, 1702031836 are for PWR-247-AE

Industrial Panel Computer Selection Guide



Model		IPPC-9151G	IPPC-9171G	IPPC-6152A	IPPC-6172A	IPPC-6192A	IPPC-4001D/4008D	IPPC-7157A/7158B
CPU		Socket µFC- PGA988 Intel® Core™ i7, i5, i3, Celeron Mobile Processor	Socket µFC- PGA988 Intel® Core™ i7, i5, i3, Celeron Mobile Processor	Socket LGA775 Core™ 2 Quad/ Core™ 2 Duo up to 3GHz	Socket LGA775 Core™ 2 Quad/ Core™ 2 Duo up to 3GHz	Socket LGA775 Core™ 2 Quad/ Core™ 2 Duo up to 3GHz	Optional CPU Card	7157A: Pentium 4 (up to 2.8 GHz)/ Celeron® D (up to 2.5 GHz) 7158B: Optional CPU Card
Memory		Up to 8GB DDR3 SODIMM 1333MHz/1066MHz	Up to 8GB DDR3 SODIMM 1333MHz/1066MHz	Up to 4GB DDR3 SDRAM 1333MHz/1066MHz	Up to 4GB DDR3 SDRAM 1333MHz/1066MHz	Up to 4GB DDR3 SDRAM 1333MHz/1066MHz	Optional CPU Card	7157A: Up to 2 GB DDR2 SDRAM 240pin, 400/533 MHz 7158B: Optional CPU Card
Display	Display Type	XGA LED LCD	SXGA LED LCD	XGA TFT LCD	SXGA TFT LCD	SXGA TFT LCD	VGA LED LCD	XGA TFT LCD
	Display Size	15"	17"	15"	17"	19"	5.7"	15"
	Max. Resolution	1024 x 768	1280 x 1024	1024 x 768	1280 x 1024	1280 x 1024	640 x 480	1024 x 768
	Max. Colors	16.2M/262K colors	16.7M colors (RGB 6-bits + Hi-FRC data)	16.2 M (RGB 6-bit + FRC data)	16.7 M	16.7 M	262 K (RGB 6-bit)	16.2 M
	Luminance cd/m2	350	380	250	380	300	700	250
	Viewing Angle (H/V°)	160/140	170/160	160/130	170/160	160/160	160/140	160/130
	Backlight MTBF (hrs)	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs	50000 hrs
Touchscreen		Resistive	Resistive	Resistive	Resistive	Resistive	Resistive	Resistive
Network(LAN)		2 x 10/100/1000Base-T	2 x 10/100/1000Base-T	2 x 10/100/1000Base-T	2 x 10/100/1000Base-T	2 x 10/100/1000Base-T	-	7157A: 2 x 10/100/1000Base-T 7158B: NA
I/O ports		4 x RS-232, 1 x VGA, 1 x HDMI, 5 x USB 2.0 (one at front), 1 x CFast slot, 1 x keyboard and 1 x mouse, Mic-in, Line-out, Line-in	4 x RS-232, 1 x VGA, 1 x HDMI, 5 x USB 2.0 (one at front), 1 x CFast slot, 1 x keyboard and 1 x mouse, Mic-in, Line-out, Line-in	2 x RS-232, 1 x RS-232/422/485, 1 x VGA port, 2 x PS2 (Keyboard, Mouse), 5 x USB 2.0 (one at front)	2 x RS-232, 1 x RS-232/422/485, 1 x VGA port, 2 x PS2 (Keyboard, Mouse), 5 x USB 2.0 (one at front)	2 x RS-232, 1 x RS-232/422/485, 1 x VGA port, 2 x PS2 (Keyboard, Mouse), 5 x USB 2.0 (one at front)	Optional CPU Card, 1 x USB port at front	7157A: 1 x RS-232, 1 x Parallel port, 1 x VGA port, 5 x USB2.0 (one at front) 7158B: Optional CPU Card, 1 x USB port at front
HDD (Optional)		1 x 2.5" SATA	1 x 2.5" SATA	2 x 2.5" SATA	2 x 2.5" SATA	2 x 2.5" SATA	-	2 x 3.5" SATA
Optical Drive		-	-	1 x SATA Slim Type	1 x SATA Slim Type	1 x SATA Slim Type	3 x 5.25" CD-ROM Bay (Optional)	1 x 5.25" CD-ROM (Optional)
CompactFlash Slots		1 x CFast® slot	1 x CFast® slot	-	-	-	-	-
Expansion Slots		1 x Half-length PCI-E	1 x Half-length PCI-E	2 x PCI/PCI-E	2 x PCI/PCI-E	2 x PCI/PCI-E	4001D: 2 x PICMG, 10 x PCI, 2 x ISA 4008D: 8 x PCI	7157A: 5 x PCI, 2 x PCI-E 7158B: 10 x PCI, 2 x ISA, 2 x PCI/ISA
Built in Keyboard/Mouse		-	-	-	-	-	Drawer	Front membrane
Power Input Voltage		100~240 V _{AC}	100~240 V _{AC}	100 ~ 240 V _{AC}	100 ~ 240 V _{AC}	100 ~ 240 V _{AC}	100 ~ 240 V _{AC}	100 ~ 240 V _{AC}
Front cover		Aluminum	Aluminum	Die-cast flat-sealed	Die-cast flat-sealed	Die-cast flat-sealed	Aluminum	Die-cast
Operating temperature		0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)
Storage Temperature		-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Ingress Protection (Front Panel)		NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65	NEMA4/IP65
Certification		BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL	BSMI, CCC, CE, FCC, UL
Operating System		Windows 7/XP	Windows 7/XP	Windows 7/XP	Windows 7/XP	Windows 7/XP	Optional CPU Card	Windows XP
Dimension		428 x 310 x 96.5 mm (16.4" x 12.2" x 3.8")	482 x 354.8 x 98 mm (19"x14"x 4")	450 x 316 x 143 mm (17.7" x 12.4" x 5.6")	482 x 356 x 143 mm (19" x 14" x 5.6")	482 x 356 x 146 mm (19" x 14" x 5.7")	4001D: 482 x 175 x 487 mm (19" x 6.9" x 19.1") 4008D: 482 x 174 x 360 mm (19" x 7" x 14.2")	482 x 354.8 x 162 mm (19" x 14" x 6.4")
Weight		10.52 Kg (23.19 lbs)	14 Kg (30.86 lbs)	13 Kg (28.6 lbs)	15 Kg (33.04 lb)	16.6 Kg (36.6 lbs)	19.99 kg (44 lbs)/ 18 kg (39.7 lb)	18Kg (39.7 lbs)
Page		7-22	7-22	7-20	7-20	7-20	7-24	online

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

IPPC-6152A IPPC-6172A IPPC-6192A

15" XGA/17"/19" SXGA TFT LCD Core™ 2 Quad/Core™ 2 Duo Industrial Panel PC with 2 x PCI Slots



Features

- 15" XGA/17"/19" SXGA TFT LCD with touchscreen
- Intel® Core™ 2 Quad CPU (up to 2.8 GHz)/Core™ 2 Duo CPU (up to 3.0 GHz)
- System memory supports dual channel DDR3 SDRAM up to 4GB
- Offers two expansion slots for PCI add-on cards
- Dual Gigabit Ethernet with Intel vPro technology
- Supports 2 x 2.5" SATA HDDs and RAID 0/1 compatibility
- Front USB access and system reset function
- Flat-sealed front panel
- Control box with gull-wing design for easy installation and maintenance
- Front panel is NEMA4/IP65 compliant
- Offers one slim type DVD-RW

Introduction

The IPPC-6000 Series is an Industrial Panel PC with front USB access, supports the powerful Intel® Core™ 2 Quad/Core™ 2 Duo, high speed DDR3 memory, two expansion PCI slots and slim type DVD-RW. The processor and chipset combination form the foundation of vPro, Intel's next generation digital office platform, offering remote out-of-band manageability, improved security, and energy efficient performance. Two SATA hard drive interfaces with RAID 0,1 support provides data security. The flat-sealed front panel design also allows easier cleaning and liquid run off. Also the control box has a gull-wing design for easy component installation and maintenance.

Specifications

General

- BIOS** AMI 4 MB Flash BIOS
- Certifications** UL, CE, FCC, CCC, BSMI
- Enclosure** Die-cast flat-sealed front with SGCC Housing
- Dimensions (W x H x D)**
 - IPPC-6152A: 449.92 x 315.63 x 142.7 mm (17.71" x 12.43" x 5.62")
 - IPPC-6172A: 481.9 x 355.9 x 144.7 mm (18.97" x 14.01" x 5.7")
 - IPPC-6192A: 481.94 x 384.60 x 148.2 mm (18.97" x 15.14" x 5.83")
- Mounting** Panel, Rack (option)
- OS Support** Windows 7, Windows XP
- Power Input** 100 ~ 240 V_{AC} @ 60 ~ 50 Hz, 7 ~ 3.5 A
- Power Supply** 350 W
- Weight (Gross)** IPPC-6152A : 13 Kg (18.6 lbs); IPPC-6172A: 15 Kg (33.04 lbs); IPPC-6192A :16.6 Kg (35.6 lbs)

System Hardware

- CPU** Supports Socket LGA775 based up to Intel® Core™ 2 Quad 2.8 GHz/Core™ 2 Duo 3.0 GHz
- Chipset** Intel® Q45 GMCH/ICH10D0
- Memory** Two DDR3 240pin slots up to 4GB 1066/1333 MHz SDRAM
- LAN** 10/100/1000 Base-T Ethernet x 2
- Expansion** 2 x half-length PCI Slots
- Storage** Supports 2 x 2.5" SATA HDD Interface and Intel® Matrix Storage Technology RAID 0/1
- Optical Driver** 1 x Slim Type DVD-RW
- I/Os**
 - 2 x RS-232, 1 x RS-232/422/485
 - 5 x USB 2.0 (one at front)
 - 2 x PS2 (Keyboard, Mouse)
 - 1 x VGA Port
 - Mic-in, Line-in, Line-out

LCD Display

- Backlight Life** 50,000 hrs
- Contrast Ratio** IPPC-6152A: 700:1; IPPC-6172A: 1000:1; IPPC-6192A: 1300:1
- Display Size** IPPC-6152A: 15"; IPPC-6172A: 17"; IPPC-6192A: 19"
- Display Type** IPPC-6152A: XGA TFT LCD; IPPC-6172A: SXGA TFT LCD; IPPC-6192A: SXGA TFT LCD
- Luminance** IPPC-6152A: 250 cd/m²; IPPC-6172A: 380 cd/m²; IPPC-6192A: 300 cd/m²
- Max. Colors** IPPC-6152A: 16.2M (RGB 6-bit + FRC data); IPPC-6172A: 16.7M (RGB 6-bit + Hi-FRC data); IPPC-6192A: 16.2M (RGB 6-bit + FRC data)
- Max. Resolution** IPPC-6152A: 1024 x 768; IPPC-6172A: 1280 x 1024; IPPC-6192A: 1280 x 1024
- Viewing Angle (H/V°)** IPPC-6152A: 160/130; IPPC-6172A: 170/160; IPPC-6192A: 178/178

Touchscreen

- Lifespan** 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- Light Transmission** > 80%
- Type** Analog resistive 5-wire

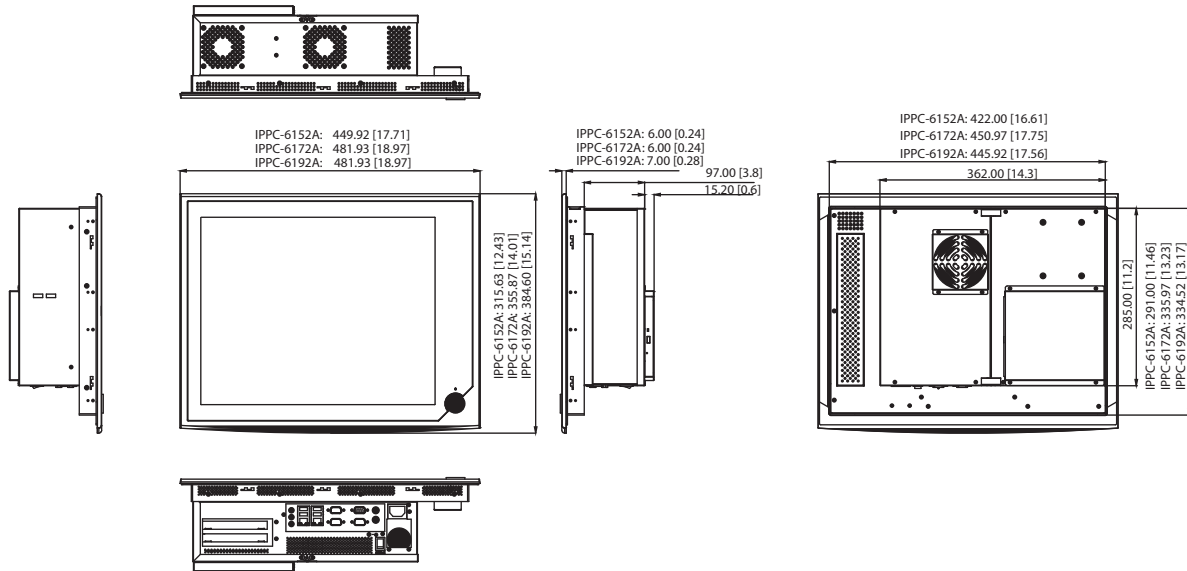
Environment

- Humidity** 5 ~ 85% @ 40°C (non-condensing)
- Ingress Protection** Front panel: NEMA4/IP65
- Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection** 5 ~ 500 Hz, 1 Grms random vibration

IPPC-6152A/IPPC-6172A/IPPC-6192A

Dimensions

Unit: mm



Panel Cut-out Dimensions: IPPC-6152A: 424 x 293 mm (16.69" x 11.54")
 IPPC-6172A: 454 x 338 mm (17.87" x 11.54")
 IPPC-6192A: 449 x 338 mm (17.68" x 11.54")

Ordering Information

- **IPPC-6152A-R1AE** 15" Core 2 Quad/Core 2 Duo Industrial Panel PC
- **IPPC-6172A-R1AE** 17" Core 2 Quad/Core 2 Duo Industrial Panel PC
- **IPPC-6192A-R1AE** 19" Core 2 Quad/Core 2 Duo Industrial Panel PC

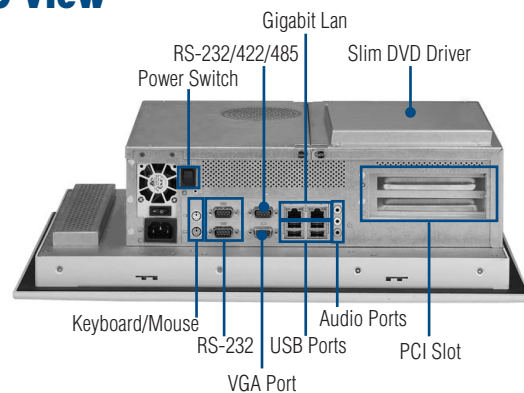
Accessories

- **IPPC-6152A-RMKE** IPPC-6152A/IPPC-6152F Rack Mount Kit
- **IPPC-6172A-RMKE** IPPC-6172A/IPPC-6172F Rack Mount Kit
- **IPPC-6192A-RMKE** IPPC-6192A Rack Mount Kit
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1702031836** Power Cable China/Australia Plug 1.8 M

Front Accessible USB Port



I/O View



IPPC-9151G IPPC-9171G

**15" XGA/17" SXGA LED backlight TFT
LCD Intel® Core™ i7/i5/i3 Celeron®
Mobile Processor Industrial Panel PC
with 1 x PCIe Slot**

NEW



Features

- Intel® Core™ i7/i5/i3 Celeron® μFC-PGA988 processor with Intel® QM67 chipset
- 15" XGA/17" SXGA LED backlight LCD with low power consumption
- Front access USB connector
- Supports 1 x PCIe x 1 or x4 (Gen 2)
- Heavy-duty stainless steel chassis with aluminum front panel
- Strengthened glass protects the front panel from shock damage and s NEMA4/IP65 compliant
- Supports dual display of HDMI, LVDS, VGA
- Supports 1 x 2.5" SATA II or SATA III HDD and 1 x CFast
- Hard anodic coating to prevent panel abrasion and acid corrosion
- Supports embedded software APLs and Utilities

Introduction

IPPC-9151G/IPPC-9171G is a fully functional computer system with front USB access, with Intel® mobile Core i7-2710QE 2.1GHz/Core i5-2510E 2.5 GHz/Core i3-2330E 2.2 GHz /Celeron® B810 1.6 GHz processors up to 6 MB L3 cache and DDR3 SO-DIMM 1066/1333 up to 8 GB and a resolution up to 1024 x 768 to meet the demands of today's high-end industrial software. The IPPC-9151G/IPPC-9171G is a rugged unit with an aluminum panel, 15"/17" TFT LCD with LED backlight, a stainless steel structure and a PCIe slot. The IPPC-9151G/9171G is rugged enough to handle the toughest industrial operating environments. With optional mounting accessories, from panels to racks, it can be mounted anywhere.

Specifications

General

- BIOS** AMI EFI 64 Mbit SPI
- Certifications** BSMI, CCC, CE, FCC, UL
- Cooling System** 2 x 10.1 CFM fans w/50,000 hrs MTBF
- Dimensions (W x H x D)**
 - IPPC-9151G: 428 x 310 x 96.5 mm (16.35" x 12.2" x 3.79")
 - IPPC-9171G: 482 x 354.8 x 98 mm (18.98" x 13.97" x 3.86")
- Disk Drive Bay** Supports 1 x 2.5" SATA II or SATA III HDD
- Enclosure** Stainless steel back case, 10 mm aluminum front panel
- Mounting** Panel, rack
- Power Input** 100~240 V_{AC} @ 4A 50~60hz
- Power Supply** 180 W, MTBF: 100,000 hrs
- Weight (Gross)**
 - IPPC-9151G: 10.52 Kg (23.19 lbs)
 - IPPC-9171G: 14 Kg (30.86 lbs)

System Hardware

- CPU** Supports uFC-PGA988 Intel® mobile Core i7-2710QE 2.1 GHz/Core i5-2510E 2.5 GHz/Core i3-2330E 2.2 GHz/Celeron® B810 1.6GHz processor
- Chipset** Intel® 6 series chipset (QM67)
- Audio Ports** Mic-in, Line-out, Line-in
- Expansion Slots** Supports 1 x PCIe x 1 or x 4
- PS/2** 1 x keyboard and 1 x mouse
- LAN** 2 x 10/100/1000 Mbps
- Memory** 2 x 204 pin DDR3 1066/1333 SODIMM sockets supports up to 8GB (2 x 4GB)
- Cfast** 1 x CFast slot
- I/Os** 1 x VGA; 1 x HDMI; 5 x USB 2.0 (one at front); 4 x RS-232

LCD Display

- LCD Display Type** IPPC-9151G: XGA TFT LCD with LED Backlight
IPPC-9171G: SXGA TFT LCD with LED Backlight
- Display Size** IPPC-9151G: 15"; IPPC-9171G: 17"
- Max. Resolution** IPPC-9151G: 1024 x 768; IPPC-9171G: 1280 x 1024
- Max. Colors** IPPC-9151G: 16.2M or 256K Color
IPPC-9171G: 16.7M colors (RGB 6-bits +Hi-FRC data)
- Viewing Angle (H/V°)** IPPC-9151G: 160/140; IPPC-9171G: 170/160
- Luminance** IPPC-9151G: 350 cd/m²; IPPC-9171G: 380 cd/m²
- Backlight Life** 50,000hrs
- Contrast Ratio** IPPC-9151G: 700:1; IPPC-9171G: 400:1

Touchscreen

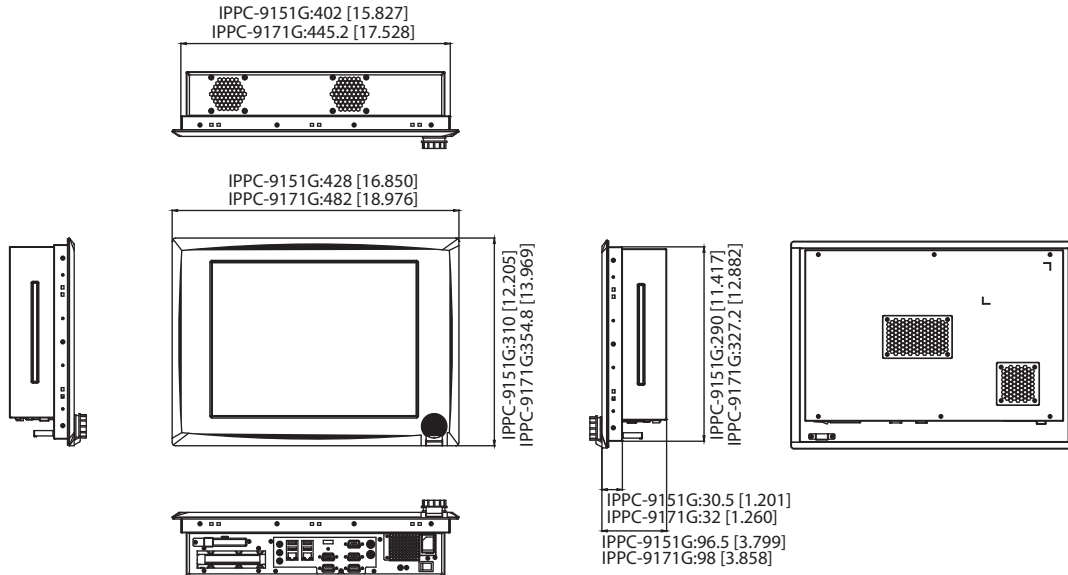
- Lifespan** 36 million with a silicone rubber of R8 finger, writing rate is by 250g at 2 times/s
- Light Transmission** > 80%
- Type** Analog resistive (5-wire)

Environment

- Humidity** 5 ~ 85% @ 40°C (non-condensing)
- Ingress Protection** Front panel: NEMA4/IP65
- Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection** 5 ~ 500 Hz, 1 G_{RMS} random vibration

Dimensions

Unit: mm



Panel Cut-out Dimensions: IPPC-9151G: 404 x 292mm (15.90" x 11.49")
IPPC-9171G: 447.5 x 329.5mm (17.618" x 12.972")

Ordering Information

- **IPPC-9151G-R1AE** 15" XGA Intel® Core™ i7/i5/i3 Celeron with TS
- **IPPC-9171G-R1AE** 17" SXGA Intel® Core™ i7/i5/i3 Celeron with TS

Accessories

- **IPPC-9151G-RMKE** (IPPC-9151G) Mounting Kit for standard 19" industrial rack

Notes:

1. When used in a panel mounted environment, the panel's thickness can not be over 10mm.

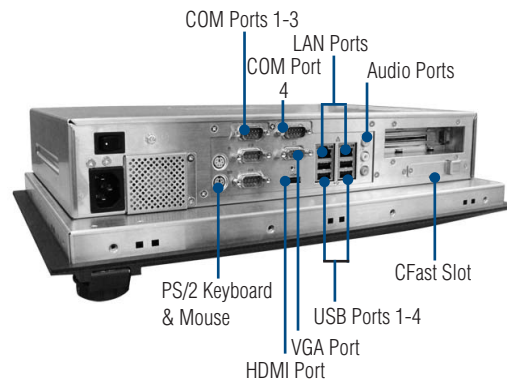
1702002600	Power Cable US Plug 1.8 M
1702002605	Power Cable EU Plug 1.8 M
1702031801	Power Cable UK Plug 1.8 M
1702031836	Power Cable China/Australia Plug 1.8 M

2. Dual Display

Primary Display
Second Display

LCD
 CRT or HDMI

I/O Overview



- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

IPPC-4001D IPPC-4008D

5.7" VGA TFT LCD 4U 19"/19" Half-sized Rack Industrial Panel PC with 14/8 Expansion Slots & Keyboard Drawer



Features

- 4U height 19" rackmount/19" half-sized chassis with 5.7" VGA TFT display
- Slim keyboard & mouse pad drawer with lockable clip
- Supports high performance Intel Core 2 Duo processors (and up)
- Offers 14/8 expansion slots for 2 PICMG, 10 PCI, 2 ISA/8 PCI
- Lockable front door prevents unauthorized access
- Membrane function keys (F1~F5) for varied application access
- Handy screen function for Industrial Automation Controller and Monitoring
- Front accessible USB is friendly to plug-in versatile USB devices
- All-in-one IPC system for saving cost/space from IPC with LCD/keyboard
- Telecom/Power Station portal and platform for test & measurement equipment
- Suitable for Automatic Testing Equipment and Production Line Testers

Introduction

IPPC-4000 series is a 4U 19" rackmount/19" half-sized rackmount Industrial Panel PC with 5.7" VGA TFT LCD display, passive backplane and ISA/PCI/PICMG or 8 PCI expansion slots. Designed to be an all-in-one and cost-effective solution for traditional IPC users, IPPC-4000D series includes a slim type 85 key keyboard and touch pad drawer making input troublefree, and a 5.7" TFT LCD screen is perfect for information displays like: charts, trends, a control panel, simple programming, production data or field monitoring records. A wide range of standard computing peripherals from the Advantech IPC family can be integrated into the unit to meet different application development requirements in mission-critical environments.

Specifications

General

- Button Control** Membrane Key 5 Function Keys (F1 to F5), 5 Cursor Keys (Up, Down, Left, Right, Enter)
- Certifications** BSMI, CCC, CE, FCC Class A, UL
- Dimensions (W x H x D)** IPPC-4001D: 482 x 174.9 x 486.7 mm (18.97" x 6.88" x 19.16")
IPPC-4008D: 482 x 174 x 360 mm (19" x 7" x 14.2")
Integrated 88-Key (US) slim type keyboard w/touch pad
- Keyboard Drawer** 19" Rack
- Mounting** 100 ~ 240 V_{AC} @ 50~ 60 Hz full range 10A
- Power Input** Watt: 300 W, MTBF: 100,000 hrs
- Power Supply** IPPC-4001D: 19.99 kg (44 lbs);
IPPC-4008D: 18 kg (39.6 lbs)
- Weight**

System Hardware

- Passive Backplane** IPPC-4001D: PCA-6114P10; IPPC-4008D: PCA-6108P8
- Slots** IPPC-4001D: 2 PICMG, 10 PCI, 2 ISA;
IPPC-4008D: 8 PCI
- Backplane Size** IPPC-4001D: 315 x 260 mm (12.4" x 10.24")
IPPC-4008D: 182 x 185 mm
- PCI Bridge** Pericom PI7C8150MA
- PCI Slot** IPPC-4001D: Primary 3 slots, Secondary 7 slots
IPPC-4008D: 1 CPU PCI, 3 PCI, 4 SPCI
- Storage** 3 x 5.25" disk drive bay

LCD Display

- Backlight Life** 50,000 hrs (LED Backlight)
- Contrast Ratio** 800:1
- Display Size** 5.7"
- Display Type** VGA TFT LCD
- Luminance** 700 cd/m²
- Max. Colors** 262 K (RGB 6-bit)
- Max. Resolution** 640 x 480
- OSD Control** ON/OFF, Brightness down, up
- Viewing Angle (H/V°)** 160/140

Environment

- Humidity** 5 ~ 85% RH @ 40°C (non-condensing)
- Ingress Protection** Front panel NEMA4/IP65
- Operating Temperature** 0 ~ 50°C (32 ~ 122°F)
- Storage Temperature** -20 ~ 60°C (-4 ~ 140°F)
- Vibration Protection** 5 ~ 500 Hz, 1 GRMS random vibration (operating)

Ordering Information

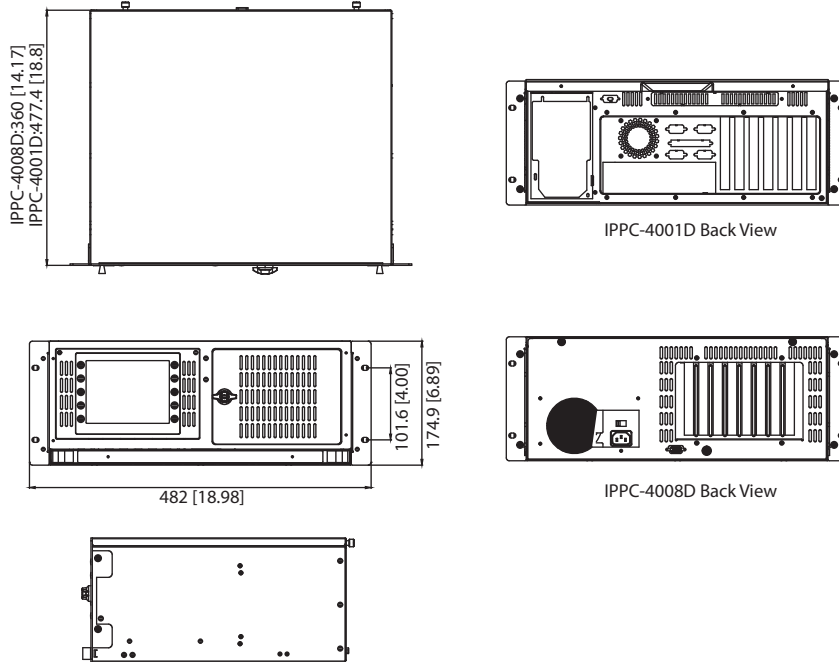
- IPPC-4001D-B0AE** 5.7" VGA 4U 19" IPPC, 300W, 2 PICMG, 10 PCI, 2 ISA
- IPPC-4008D-B0AE** 5.7" VGA 4U 19" Half-sized IPPC, 300W, 8 PCI

CPU Card Suggestions

	Part No	CPU Grade	Description
IPPC-4001D	PCA-6194G2-00A1E	Intel Core2 Duo (1066/800/533 MHz FSB)	LGA775 Core 2 Duo/ Pentium D/Pentium 4/ Celeron D Processor Card with IPMI/VGA/Dual GbE LAN (FSB 1066/800 MHz)
	PCA-6190VG-00A2E	Intel Pentium 4 (533/800 MHz FSB)	LGA775 Pentium 4/ Celeron Processor Card with VGA/LAN/
	PCA-6187VG-00A2E	Intel Pentium 4 (400/533/800 MHz FSB)	Socket 478 Pentium 4/Celeron D/Celeron Processor Card with VGA/LAN
	PCA-6008VG-06A1E	Intel Pentium M/Celeron M (533 MHz FSB)	Socket 479 Pentium M/ Celeron M Processor Card with VGA/ DVI/ Dual GbE LAN
IPPC-4008D	PCI-7020VG-00A1E	Intel Core 2 Duo (1066/800/533 MHz FSB)	LGA775 Intel Core 2 Duo PCI Half-size SBC with VGA/GbE LAN/SATA/DVI and SSD (FSB 1066MHz)
	PCI-6886F-00A2E	Socket-M Intel Core 2 Duo (667/533 MHz FSB)	PCI Socket479 SlotPC w/ LAN/VGA
	PCI-7031N-S6A1E	Onboard Intel Atom N450 CPU and IGB onboard DDR2 667 Memory (only for N SKU)	PCI Half-Sized SBC with onboard DDR2 Memory/ VGA/LAN/SATA/FDD/USB/ COM/LPT/LVDS/CF

Dimensions

Unit: mm



Accessories

- 1702002600 Power Cable US Plug 1.8 M
- 1702002605 Power Cable EU Plug 1.8 M
- 1702031801 Power Cable UK Plug 1.8 M
- 1702031836 Power Cable China/Australia Plug 1.8 M

Rear View

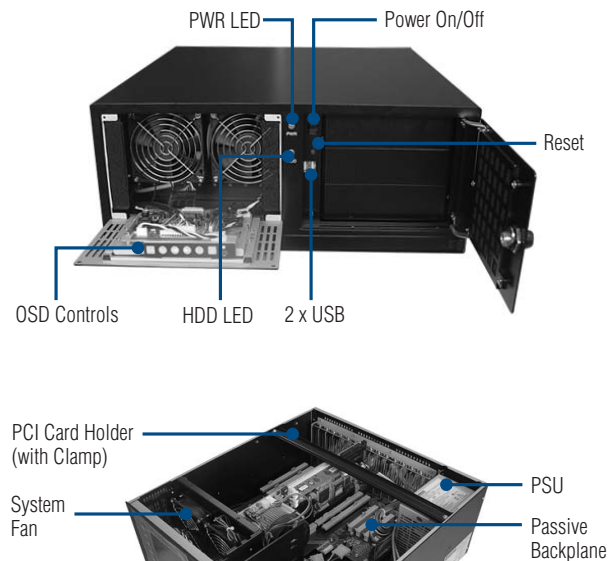
IPPC-4001D



IPPC-4008D

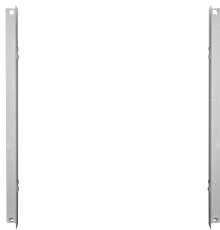


System View



- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

IPPC Accessories



IPPC-6192A-RMKE

IPPC-6192A/FPM-5191G Rack Mount Kit



IPPC-6172A-RMKE

IPPC-6172A/FPM-5171G Rack Mount Kit



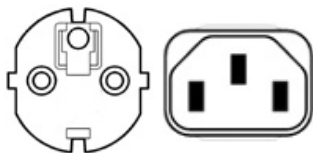
IPPC-6152A-RMKE

IPPC-6152A/FPM-5151G Rack Mount Kit



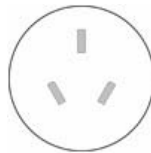
1702002600

Power Cable US Plug 1.8 M



1702002605

Power Cable EU Plug 1.8 M



1702031836

Power Cable China/Australia Plug 1.8 M



1702031801

Power Cable UK Plug 1.8 M