## Automation Panel PCs

### Touch Panel Computers

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>TPC-1780H</td>
<td>17” SXGA TFT LCD Core 2 Duo L7400 Touch Panel Computer</td>
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<tr>
<td>TPC-1770H</td>
<td>17” SXGA TFT LCD Celeron M Touch Panel Computer</td>
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<td>TPC-1571H</td>
<td>15” XGA TFT LCD Intel Atom Dual-Core DS25 Touch Panel Computer</td>
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<td>TPC-1071H</td>
<td>10.4”/12.1” SXGA TFT LCD Intel Atom Dual-Core DS25 Touch Panel Computer</td>
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<td>TPC-671H</td>
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<td>TPC-551H</td>
<td>5.7” VGA/12.1” SVGA/15” XGA TFT LCD Intel Touch Panel Computers with</td>
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<td>TPC-650H</td>
<td>5.7” VGA/12.1” SVGA/15” XGA TFT LCD Intel Atom Thin Client Computers</td>
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<td>TPC-31T</td>
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### Industrial Panel Computers

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<tr>
<td>IPPC-6152A</td>
<td>15” XGA/17”/19” SXGA TFT LCD Core 2 Quad/Core Duo Industrial Panel PC with 2 x PCI Slots</td>
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<td>IPPC-9151G</td>
<td>15” XGA/17” SXGA LED backlight TFT LCD Intel Core i7/i5/i3 Celeron Mobile Processor Industrial Panel PC with 1x PCIe Slot</td>
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<tr>
<td>IPPC-4001D</td>
<td>5.7” VGA TFT LCD 4U 19”/19” Half-sized Rack Industrial Panel PC with 14/8 Expansion Slots &amp; Keyboard Drawer</td>
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To view all of Advantech’s Automation Panel PCs, please visit [www.advantech.com/products](http://www.advantech.com/products).
Touch Panel Computer Selection Guide

### Specifications

<table>
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<tr>
<th>Model</th>
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<th>TPC-1271H</th>
<th>TPC-1071H</th>
<th>TPC-871H</th>
<th>TPC-651H/231H/551H</th>
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<td>383 x 307 x 78.5 mm (15.08&quot; x 12.09&quot; x 3.09&quot;)</td>
<td>311 x 237 x 71.6 mm (12.24&quot; x 9.33&quot; x 2.82&quot;)</td>
<td>286 x 227 x 70.3 mm (11.26&quot; x 8.84&quot; x 2.76&quot;)</td>
<td>195 x 148 x 44.5 mm (7.69&quot; x 5.83&quot; x 1.75&quot;)</td>
<td>195 x 148 x 44.5 mm (7.69&quot; x 5.83&quot; x 1.75&quot;)</td>
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TPC-1780H
TPC-1770H

17” SXGA TFT LCD Core™ 2 Duo L7400 Touch Panel Computer
17” SXGA TFT LCD Celeron® M Touch Panel Computer

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 VDC
- 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
- Chipset: TPC-1780H: Intel® 945GME + ICH7
  TPC-1770H: Intel® 915GME + ICH6
- 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 Tunel, 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: NEM4, IP65
  - Operating Temperature: 0 ~ 45°C (32 ~ 113°F)
  - Storage Temperature: -20 ~ 60°C (-4 ~ 140°F)
  - Vibration Protection: With HDD: 1 Gms (5 ~ 500 Hz)
               Operating, random vibration
TPC-1780H
TPC-1770H

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)

TPC-1780H
TPC-1770H
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
- 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 Vdc
- 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 Gms (5 ~ 50 Hz) (Operating, random vibration)
TPC-1571H

**Dimensions**

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** 100-240VAC to 19VDC 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 20dBi 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. DIO ports
- i. CompactFlash

* Windows XPe supports 10 languages with MUI. (English, Traditional Chinese, Simplified Chinese, French, German, Spanish, Russian, Italian, Japanese and Korean)
## 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 32/64 bit/XP/WES/
  - Windows CE5.0/6.0
- **Power Consumption**: TPC-1071H: 17W/
  - TPC-1271H: 20W (typical)
- **Power Input**: 10~29 VDC
- **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**: Intel 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

### 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.

### 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
- **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 Gms (5 – 500 Hz)
  - Operating, random vibration
TPC-1071H/TPC-1271H

Dimensions
TPC-1071H

TPC-1271H

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 100-240VAC to 19VDC 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
- 1750003181 EMI Antenna 20dBi 2.4GHz SMA CONN for ARK-3384
- 1750003222 802.11b/g 5dBi Dipole Antenna
- 1750003418 Wireless Antenna AN2400-5901RS R/P SMA.M9dB

Panel Cut-out Dimensions: 279.5 x 219 mm (11.18" x 8.76")
Panel Cut-out Dimensions: 302 x 228 mm (12.08" x 9.12")

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
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 VDC
- 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 PCIe x 1
- Storage: CompactFlash® slot x 1
- I/O: RS-232 x 1(COM1)

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
- Viewpoint 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)
**TPC-671H**

**Dimensions**

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** 100-240VAC to 19VDC 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 XPe 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

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):
  - TPC-651H: 195 x 148 x 58 mm (7.68” x 5.83” x 2.28”)
  - TPC-1251H: 311 x 237 x 54 mm (12.24” x 9.33” x 2.12”)
  - TPC-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
- Mounting: Desktop, Wall or Panel Mount
- OS Support: Windows XP/WE7/XPe/CE/Linux
- Power Consumption: 17 W/35 W/40 W (typical)
- Power Input: 18 ~ 32 Vdc
- 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 SD-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 backlight LCD
- Display Size: 5.7”/12.1”/15”
- Max. Resolution:
  - TPC-651H: 640 x 480
  - TPC-1251H: 800 x 600
  - TPC-1551H: 1024 x 768
- Max. Colors: 262 K
- Luminance cd/m²:
  - TPC-651H: 700
  - TPC-1251H: 450
  - TPC-1551H: 350
- Viewing Angle (H/V°):
  - TPC-651H: 160/140
  - TPC-1251H: 160/140
  - TPC-1551H: 160/140
- Contrast Ratio:
  - TPC-651H: 800:1
  - TPC-1251H: 700:1
  - TPC-1551H: 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:
  - TPC-651H: -20 ~ 60°C
  - TPC-1251H: -20 ~ 60°C
  - TPC-1551H: -30 ~ 80°C
- Storage Temperature:
  - TPC-651H: -30 ~ 80°C
  - TPC-1251H: -22 ~ 176°F
  - TPC-1551H: -30 ~ 80°C
- Vibration Protection:
  - TPC-651H: 2 Gms (5 – 500 Hz)
  - TPC-1251H: (Operating, random vibration)
### 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.

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**Dimensions**

**TPC-651H**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Cut-out</td>
<td>189.1 x 142.1 mm (7.56” x 5.68”)</td>
</tr>
<tr>
<td>TPC-651H</td>
<td>281 x 132</td>
</tr>
<tr>
<td>TPC-1251H/1551H</td>
<td>195 x 114.2</td>
</tr>
</tbody>
</table>

**TPC-1251H/1551H**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Cut-out</td>
<td>302.5 x 228.5 mm (12.1” x 9.14”)</td>
</tr>
<tr>
<td>TPC-1250H</td>
<td>227.5</td>
</tr>
<tr>
<td>TPC-1550H</td>
<td>297.0</td>
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<tr>
<td>TPC-1251H</td>
<td>227.2</td>
</tr>
<tr>
<td>TPC-1551H</td>
<td>296.1</td>
</tr>
</tbody>
</table>

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**Rear View**

- **TPC-1251H/1551H**

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

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**TPC-651H**

- **a**: COM (RS-232, RS-422/485)
- **b**: USB 2.0
- **c**: LAN (10/100/1000)
- **d**: Power Receptor
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 ready
  Linux with Firefox explorer and Java Script plugins
- Power Consumption: 17 W/35 W/40 W (typical)
- Power Input: 18 ~ 28 VDC, 18 ~ 32 VDC (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)

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)

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

LCD Display
- Display Type: VGA/SVGA/XGA TFT 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
- Viewing Angle (H/V°): 160/140; 170/160 (for 17")
- Backlight Life: 50,000 hrs
- Contrast Ratio: 800:1

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 Gms (5 ~ 500 Hz)
  (Operating, random vibration)
Dimensions

TPC-650H

TPC-1250H/1550H/1750H

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

TPC-1250H/1550H/1750H:

- Dimensions: TPC-650H: 189.1 x 142.1 mm (7.66" 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")

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
TPC-31T
TPC-61T

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 VDC
- 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 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**

![Dimensions TPC-31T](image)

**TPC-61T**

![Dimensions TPC-61T](image)

**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**

- LAN (10/100)
- COM (RS-232/485)
- Power Receptor

**TPC-61T**

- SD Slot
- USB 2.0 (Host)
- USB 2.0 (Client)
- COM 1 (RS-232)
- COM 2 (RS-232)
- COM3 (RS-22/485)
- Power Switch
- Power Receptor
- Fuse (3.15A)
- LAN(10/100)
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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>1702002600</td>
<td>Power Cable US Plug 1.8 M</td>
</tr>
<tr>
<td>1702002605</td>
<td>Power Cable EU Plug 1.8 M</td>
</tr>
<tr>
<td>1702031801</td>
<td>Power Cable UK Plug 1.8 M</td>
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<tr>
<td>1702031836</td>
<td>Power Cable China/Australia Plug 1.8 M</td>
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<td>170203180A</td>
<td>Power Cable UK Plug 1.8 M</td>
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- 1702002600, 1702301801, 1702002605, 1702031836 are for PWR-247-AE
## Industrial Panel Computer Selection Guide

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<thead>
<tr>
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<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Socket LFC- PGA988 Intel® Core™ i7, i5, i3, Celeron Mobile Processor</td>
<td>Socket LFC- PGA988 Intel® Core™ i7, i5, i3, Celeron Mobile Processor</td>
<td>Socket LGA-775 Core™ 2 Quad</td>
<td>Socket LGA-775 Core™ 2 Quad</td>
<td>Socket LGA-775 Core™ 2 Quad</td>
<td>Optional CPU Card</td>
<td>7157A: Pentium 4 (up to 2.8 GHz)/ Celeron® D (up to 2.5 GHz) 7158B: Optional CPU</td>
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<tr>
<td><strong>Memory</strong></td>
<td>Up to 8GB DDR3 1333MHz/1066MHz-1 1333MHz/1066MHz-2</td>
<td>Up to 8GB DDR3 1333MHz/1066MHz-1 1333MHz/1066MHz-2</td>
<td>Up to 4GB DDR3 1333MHz/1066MHz-1 1333MHz/1066MHz-2</td>
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<td>Up to 4GB DDR3 1333MHz/1066MHz-1 1333MHz/1066MHz-2</td>
<td>Optional CPU Card</td>
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<td><strong>Display</strong></td>
<td>XGA LED LCD</td>
<td>SXGA LED LCD</td>
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<td>VGA LED LCD</td>
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<td>-20 ~ 60°C</td>
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<td><strong>Power Input Voltage</strong></td>
<td>100 ~ 240 Vac</td>
<td>100 ~ 240 Vac</td>
<td>100 ~ 240 Vac</td>
<td>100 ~ 240 Vac</td>
<td>100 ~ 240 Vac</td>
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<tr>
<td><strong>Operating Temperature</strong></td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
<td>0 ~ 50°C (32 ~ 122°F)</td>
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<td><strong>Storage Temperature</strong></td>
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<td>-20 ~ 60°C (-4 ~ 140°F)</td>
<td>-20 ~ 60°C (-4 ~ 140°F)</td>
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<td>-20 ~ 60°C (-4 ~ 140°F)</td>
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<td>Die-cast flat-sealed</td>
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<td>Die-cast flat-sealed</td>
<td>Aluminum</td>
<td>Die-cast</td>
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<tr>
<td><strong>Dimension</strong></td>
<td>482 x 310 x 96.5 mm (19 x 12.2” x 3.8”) 16.4”</td>
<td>482 x 354 x 98 mm (19 x 14.9” x 3.8”) 16.4”</td>
<td>450 x 316 x 143 mm (17.7” x 12.4” x 5.6”) 16.4”</td>
<td>482 x 356 x 143 mm (19 x 14” x 5.6”) 16.4”</td>
<td>482 x 356 x 146 mm (19 x 14” x 5.6”) 16.4”</td>
<td>482 x 356 x 146 mm (19 x 14” x 5.6”) 16.4”</td>
<td>482 x 354 x 162 mm (19 x 14” x 6.4”) 16.4”</td>
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<tr>
<td><strong>Weight</strong></td>
<td>10.52 Kg (23.19 lbs)</td>
<td>14 Kg (30.86 lbs)</td>
<td>13 Kg (28.6 lbs)</td>
<td>15 Kg (33.04 lbs)</td>
<td>16.6 Kg (36.5 lbs)</td>
<td>19.99 Kg (44 lbs)</td>
<td>18 Kg (39.7 lbs)</td>
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<td>7.22</td>
<td>7.20</td>
<td>7.20</td>
<td>7.20</td>
<td>7.24</td>
<td>online</td>
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</tbody>
</table>
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 VAC @ 60 ~ 50 Hz, 7 ~ 3.5 A
- Power Supply: 350 W
- Weight (Gross): IPPC-6152A: 13 Kg (28.6 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 2.6 GHz/Core™ 2 Duo 3.0 GHz
- Chipset: Intel® Q45 GMCH/ICH10DD
- Memory: Two DDR3 240pin slots up to 4GB 1066/1333 MHz SDRAM
- LAN: 10/100/1000Base-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
- 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

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: IP66/IP67
- Operating Temperature: 0 ~ 50°C (-4 ~ 122°F)
- Storage Temperature: -20 ~ -60°C (-4 ~ -140°F)
- Vibration Protection: 5 ~ 500 Hz, 1 Grms random vibration

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
### Dimensions

Panel Cut-out Dimensions:
- **IPPC-6152A**: 424 x 293 mm (16.69" x 11.54")
- **IPPC-6172A**: 454 x 338 mm (17.87" x 13.31")
- **IPPC-6192A**: 449 x 338 mm (17.68" x 13.31")

### 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

![USB Port Diagram](image)

- Reset Button
- USB

### I/O View

- Gigabit Lan
- Slim DVD Driver
- Power Switch
- RS-232/422/485
- Audio Ports
- PCI Slot
- USB Ports
- VGA Port
- RS-232
- Keyboard/Mouse

---

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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 SODIMM 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 VAC @ 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 2.1GHz/Core i5-2510E 2.5 GHz/Core i3-2330E 2.2 GHz/Celeron® B810 1.6 GHz 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
- 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: 350 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 Gmax, random vibration
### Dimensions

**IPPC-9151G: 402 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 cannot 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

### I/O Overview

- COM Ports 1-3
- LAN Ports
- COM Port
- Audio Ports
- PS/2 Keyboard & Mouse
- USB Ports 1-4
- VGA Port
- HDMI Port
- CFast Slot
- LAN Ports

### Panel Cut-out Dimensions:
- **IPPC-9151G:** 402 x 292mm (15.90" x 11.49")
- **IPPC-9171G:** 447.5 x 329.5mm (17.618" x 12.972")
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")
- **Keyboard Drawer**: Integrated 88-Key (US) slim type keyboard w/touch pad
- **Mounting**: 19" Rack
- **Power Input**: 100 ~ 240 VAC @ 50~ 60 Hz full range 10A
- **Power Supply**: Watt: 300 W, MTBF: 100,000 hrs
- **Weight**:
  - IPPC-4001D: 19.99 kg (44 lbs);
  - IPPC-4008D: 18 kg (39.6 lbs)

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")
- **PCI Bridge**: Pericom P1C8150MA
- **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

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**

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-BA0E**: 5.7" VGA 4U 19" IPPC, 300W, 2 PICMG, 10 PCI, 2 ISA
- **IPPC-4008D-BA0E**: 5.7" VGA 4U 19" Half-sized IPPC, 300W, 8 PCI

CPU Card Suggestions

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<tr>
<th>Part No</th>
<th>CPU Grade Description</th>
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<tbody>
<tr>
<td>PCA-6194G2-00A1E</td>
<td>Intel Core2 Duo (1066/800/533 MHz FSB)</td>
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<td>LGA775 Core 2 Duo Processor Card with IPMI/VGA/Dual GbE LAN/FSB 1066MHz</td>
</tr>
<tr>
<td>PCA-6190VG-00A2E</td>
<td>Intel Pentium 4 (533/800 MHz FSB)</td>
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<td>LGA775 Pentium 4 Processor Card with VGA/LAN</td>
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<tr>
<td>PCI-6886F-00A2E</td>
<td>Socket M Intel Core 2 Duo (1066/800/533 MHz FSB)</td>
</tr>
<tr>
<td></td>
<td>LGA775 Pentium Core 2 Duo Processor Card with VGA/Dual GbE Dual LAN</td>
</tr>
<tr>
<td>PCI-7031N-S6A1E</td>
<td>Onboard Intel Atom N450 CPU and IGB onboard DDR2 667 Memory (only for N SKU)</td>
</tr>
<tr>
<td>PCI-7031N-S6A1E</td>
<td>PCI Socket 479 SlotPC w/ LAN/VGA</td>
</tr>
</tbody>
</table>
### 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**

### System View
- PWR LED
- Power On/Off
- Reset
- 2 x USB
- HDD LED
- OSD Controls
- PCI Card Holder (with Clamp)
- System Fan
- Passive Backplane
- PSU

### Dimensions
- **IPPC-4001D** Back View
- **IPPC-4008D** Back View
IPPC Accessories

IPPC-6192A-RMKE
IPPC-6192A/FPM-5191G 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