

# PS4700 Industrial PC



**Features:**

- CPU: Core™2 Duo P8400 or Atom™ N270
- Quick & easy storage expansion
- Cartridge HDD/SSD for easy maintenance
- UPS battery options for data protection
- IEC60529 IP65, UL50E Type 4x
- Intelligence Fan (Core™2 Duo P8400 model only)
- TFT Color LCD Display
- Power Consumption: 130W (max.)

**Performance Specifications**

Models	PS4700 Series- Build to order (See reverse side for ordering information)	
Graphics Display Resolution	1024 x 768 pixels (XGA TFT active matrix)	
Display Type and Size	TFT Color LCD (15-inch)	
Display Colors	16 million	
Touch Panel	Analog resistive film	
Supported OS	[Core™2 Duo]: HDD or SSD: Windows® XP Professional SP3/Windows® 7 Ultimate (32 or 64 bit) [Atom™]: HDD or SSD: Windows® XP Professional SP3/Windows® 7 Ultimate 32 bit	
CPU	Core™2 Duo P8400 2.26 GHz or Atom™ N270 1.6 GHz	
L2 Cache Memory	Core™2 Duo: 3 MB or Atom™: 512 KB	
Main Memory	Core™2 Duo: 2 to 8 GB (DDR3 1066 MHz) Atom™: 1 to 3 GB (DDR2 533 MHz)	
Video Memory	Core™2 Duo: Up to 384 MB Atom™: Up to 224 MB (only available on 1 or 2 slot models) <sup>*2</sup>	
Interface	Serial ATA	Slide-in Disk: (SSD) x1 Slide-in Slot: (SSD or DVD-RW) x1 <sup>*4</sup>
	IDE	CF slot (Type-I) x1
	Serial (COM1)	RS-232C (D-Sub 9-pin, plug)
	Serial (COM2)	RS-232C (D-Sub 9-pin, plug)
	Serial (COM3)	RS-232C/422/485 (Optional)
	Ethernet (LAN1)	10/100/1000 Mbit/s (RJ-45 Modular jack)
	Ethernet (LAN2)	10/100/1000 Mbit/s (RJ-45 Modular jack)
	USB (TYPE-A)	USB 2.0 x5 <sup>*3</sup>
	Video Output	DVI-I x1
	Expansion Slot	1 slot (PCI x1) 2 slots (PCI x1, PCI Express x1)

<sup>\*1</sup> Unable to be added by users. <sup>\*2</sup> Reserved from main memory <sup>\*3</sup> 4 USB in back, 1 USB in front. <sup>\*4</sup> 1 or 2 slots models only

**General Specifications**

Models	PS4700 (Build to Order)
Input Voltage	AC Power Model: 100 to 240 Vac, DC Power Model: 24 Vdc ±25 %
Power Consumption	130 W (max.)
In-Rush Current	AC Power Model: [100VAC]: Typ. 20 A (At cold start), [240VAC]: Typ. 40 A (At cold start)
Storage Temperature	-20 to +60 °C (-4 to +140 °F)
Certifications	UL508, CE (EN55011 Class A, EN61000-6-2, EN60950-1), RoHS, GOST, UL/c-UL, CSA C22.2 N°142, CSA C22.2N°213, ANSI/ISA 12.12.01 Electrical Equipment for use in Class I Division 2. Hazardous Locations (Marine (GL) *Noise filter are required)
Surrounding Air Temperature	0 to 50 °C (32 to 122 °F)
Ambient/Storage Humidity	10 to 85 % RH (Wet bulb temperature: 29 °C (84.2 °F) max. - no condensation)
Corrosive Gas	Free of corrosive gases
Cooling Method	Core2 Duo: Passive heat sink and fan kit with filter. Fan speed is controlled by internal temperature and doesn't operate unless internal temp. reaches the set temperature, for longer life time. Atom: Passive heat sink, Fanless operation for longer life time,
Air Pressure (altitude range)	2,000 m (6,560 ft) max
Vibration Resistance	<ul style="list-style-type: none"> <li>• Operation (continuous) for 6 Fc products with SSD or CF Card storage device.: 2 to 9 Hz: 1.75 mm (0.07 in.) 9 to 200Hz: 4.9 m/s<sup>2</sup></li> <li>• Operation (continuous) for products with HDD storage device.: 5 to 100 Hz: 1.225 m/s<sup>2</sup></li> <li>• Operation (occasional) for products with SSD or CF Card storage device.: 2 to 9 Hz: 3.5 mm (0.14 in.) 9 to 200 Hz: 9.8 m/s<sup>2</sup></li> <li>• Operation (occasional) for products with HDD storage device.: 5 to 100 Hz: 2.450 m/s<sup>2</sup></li> <li>• Merchant Navy (continuous): 3 to 13.2 Hz: 1 mm (0.04 in.) 13.2 to 100 Hz: 6.86 m/s<sup>2</sup></li> <li>• Shock Resistance (in operation): 147 m/s<sup>2</sup> for a duration of 11 ms (IEC 60068-2-27 Ea test)</li> </ul>
Electromagnetic Compatibility (EMC)	Immunity to High Frequency Interference. Electromagnetic Emissions Class A
Ratings	Front: IEC60529 IP65, UL50E Type 4X
Weight	[ Core2 Duo ] - AC Power Model: 9.0 kg (19.8 lbs), DC Power Model: 9.0 kg (19.8 lbs) [ Atom ] - AC Power Model: 8.1 kg (17.9 lbs), DC Power Model: 8.0 kg (17.6 lbs)
External Dimensions	Dimensions dependant on unit model. Please reference the PS4000 Manual for exact diminsions for specified unit.
Panel Cut-Out Dimensions	W383.5 x H282.5 mm [ W15.10 x H11.12 in. ] (Panel outout adapter for PS3710-TA2 replacement)
Warranty	Two (2) years

**External Dimensions**

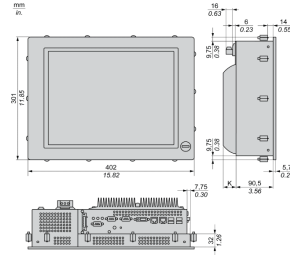
<External Dimensions>  
PS-4700 (0 Slot)  
AC power Model

The following table provides the "K" measurement value depending on which heat sink is used:

Panel PC Range	"K" Value
Core 2 Duo P1840 Pre-installed Model (0, 1 or 2 slots)	28 mm (1.103 in.)
Atom N270 Pre-installed Model (0, 1 or 2 slots)	12.8 mm (0.503 in.)

The following table shows the general tolerance for the Panel PC dimensions:

Nominal Measurement	General Tolerance acc. DIN ISO 2768 Medium
up to 6 mm (up to 0.236 in.)	± 0.1 mm (± 0.004 in.)
6...30 mm (0.236...1.181 in.)	± 0.2 mm (± 0.0078 in.)
30...120 mm (1.181...4.724 in.)	± 0.3 mm (± 0.012 in.)
120...400 mm (4.724...15.747 in.)	± 0.5 mm (± 0.02 in.)
400...1000 mm (15.747...39.37 in.)	± 0.8 mm (± 0.031 in.)



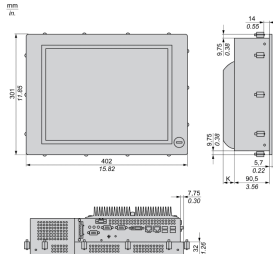
<External Dimensions>  
PS-4700 (0 Slot)  
DC Power Model

The following table provides the "K" measurement value depending on which heat sink is used:

Panel PC Range	"K" Value
Core 2 Duo P1840 Pre-installed Model (0, 1 or 2 slots)	28 mm (1.103 in.)
Atom N270 Pre-installed Model (0, 1 or 2 slots)	12.8 mm (0.503 in.)

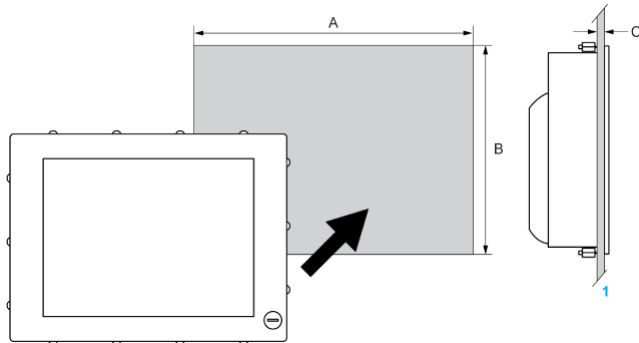
The following table shows the general tolerance for the Panel PC dimensions:

Nominal Measurement	General Tolerance acc. DIN ISO 2768 Medium
up to 6 mm (up to 0.236 in.)	± 0.1 mm (± 0.004 in.)
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120...400 mm (4.724...15.747 in.)	± 0.5 mm (± 0.02 in.)
400...1000 mm (15.747...39.37 in.)	± 0.8 mm (± 0.031 in.)



Note: For 1slot or 2slot, depth is thicker than 0 slot models. For more details, please go to our web site.

**Panel Cut Dimensions**



1: Installation panel

A	B	C
383.5 + 1/- 0 mm (15.10 + 0.04/- 0 in.)	282.5 + 1/- 0 mm (11.12 + 0.04/- 0 in.)	1.6...10 mm (0.06...0.39 in.)

For PS3710-TA2 replacement, please use cutout adapter.  
Available as part number CUTADP4700 or PFXZPP7AT1.

Note: The FP 3900 Generation T41 is not compatible with the PS 4000 Series for an extended desktop or clone display.

**Ordering Information**

**PS4700-V1-**

- Expansion Slot: \_\_\_\_\_
  - Blank ..... 0 Slot
  - 1P ..... 1 Slot - PCI
  - 1P1E ..... 2 Slot - 1 PCI/1 PCI Express
  - 2P ..... 2 Slot-2 PCI Slots
- CPU Type: \_\_\_\_\_
  - AN ..... Atom N270
  - CD ..... Core DUO
- Power Supply: \_\_\_\_\_
  - A ..... AC
  - D ..... DC
- Memory \_\_\_\_\_
  - 1G ..... 1 GB in slot (Atom N270 Only)<sup>1</sup>
  - 2G ..... 2 GB in slot
  - 3G ..... 3 GB in slot (Atom N270 Only)<sup>1</sup>
  - 4G ..... 4 GB 2 GB/slot 1 + 2 GB/slot 2 (CORE™2 DUO Only)
  - 6G ..... 6 GB in slot (CORE™2 DUO Only)<sup>1</sup>
  - 8G ..... 8 GB in slot (CORE™2 DUO Only)<sup>1</sup>
- Operating System \_\_\_\_\_
  - XP ..... Windows XP MUI
  - W732 ..... Windows 7(32bit) Ultimate
  - W764 ..... Windows 7(64bit) Ultimate (CORE™2 DUO Only)
- Main Storage Device: \_\_\_\_\_
  - Blank ..... No Storage Device<sup>2</sup>
  - PSD ..... 60GB SSD
  - SHD ..... 500GB HDD
  - SSD ..... 120GB SSD<sup>3</sup>
- Slide in Equipment: \_\_\_\_\_
  - Blank ..... No Slide in Slot
  - DVD ..... DVD writer
  - SHD ..... HDD Standard (250GB)
  - PSD ..... SSD 32GB
  - SSD ..... SSD 120GB<sup>3</sup>
- Optional Equipment: \_\_\_\_\_
  - Blank ..... No Additional Options
  - R ..... True Mirror RAID (250GB HDD Only)<sup>3</sup>
  - COM ..... COM Expansion Board RS-232C/422/485<sup>4</sup>
  - RCOM ..... Com port + RAID (250GB HDD Only)
- Software: \_\_\_\_\_
  - Blank ..... No Software
  - WGP ..... WinGP v.3.x<sup>5</sup>

Note: Please contact your sales representative to determine if the PC configuration is available as a standard option. There may be longer lead time for certain nonstandard configurations that require a Product Modification.

1 Longer lead time. Contact Customer Care to order. Some combinations may not be available.  
 2 For standard RAID option, set storage to none.  
 3 These models are not globally supported. Supported in North/Central/South America only  
 4 Third Com Port is standard on Core2Duo. The Com Port addition is only available on Atom (N270) with long lead time (not available on the configurator).  
 5 Not for Windows 7 (64bit)