

PS4700 Industrial PC



Features:

- CPU: Core™2 Duo P8400 or Atom™ N270
- Quick & easy storage expansion
- Cartridge HDD/SSD for easy maintenance
- High cost performance SSD available
- UPS battery options for data protection
- 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) ^{*2}	
Interface	Serial ATA	Slide-in Disk: (HDD or SSD) x1 Slide-in Slot: (HDD or SSD or DVD-RW) x1 ^{*4}
	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 ^{*3}
	Video	DVI-I x1
	Expansion Slot	1 slot (PCI x1) 2 slots (PCI x1, PCI Express x1)

^{*1} Unable to be added by users. ^{*2} Reserved from main memory ^{*3} 4 USB in back, 1 USB in front. ^{*4} 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"> • 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/s² • Operation (continuous) for products with HDD storage device.: 5 to 100 Hz: 1.225 m/s² • 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/s² • Operation (occasional) for products with HDD storage device.: 5 to 100 Hz: 2.450 m/s² • Merchant Navy (continuous): 3 to 13.2 Hz: 1 mm (0.04 in.) 13.2 to 100 Hz: 6.86 m/s² • Shock Resistance (in operation): 147 m/s² for a duration of 11 ms (IEC 60068-2-27 Ea test)
Electromagnetic Compatibility (EMC)	Immunity to High Frequency Interference. Electromagnetic Emissions Class A
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 cutout adapter for PS3710-TA2 replacement)
Warranty	Two (2) years

External Dimensions

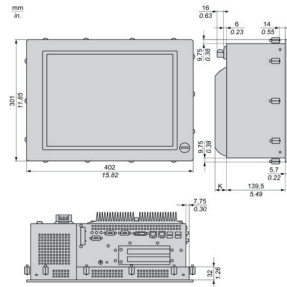
<External Dimensions>
PS-4700 (2 Slots)
AC Power Model

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

Panel PC Range	"K" Value
Core 2 Duo P18400 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 (± 0.0079 in.)
30...120 mm (1.18...4.724 in.)	± 0.3 mm (± 0.012 in.)



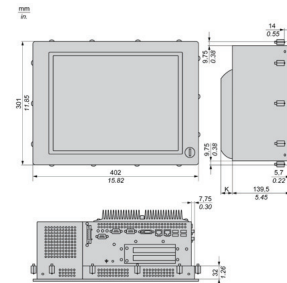
<External Dimensions>
PS-4700 (2 Slots)
DC Power Model

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

Panel PC Range	"K" Value
Core 2 Duo P18400 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.)

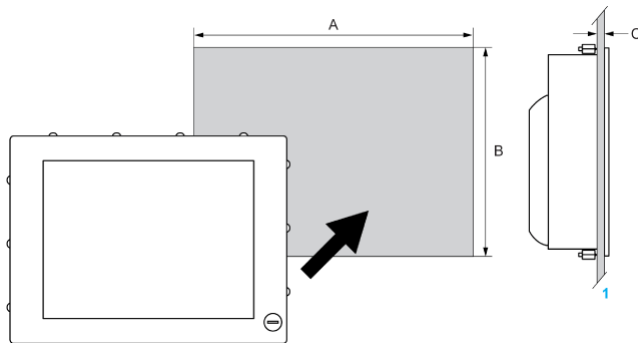
The following table shows the general tolerance for the Panel PC dimensions:

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 (± 0.0079 in.)
30...120 mm (1.18...4.724 in.)	± 0.3 mm (± 0.012 in.)



Note: For 0 slot or 1slot, depth is thinner than 2 slots models. for mode 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.

Ordering Information

PS4700-V1-

- Expansion Slot: _____
 - Blank 0 Slot
 - 1P 1 Slot - PCI
 - 1P1E 2 Slot - 1 PCI/1 PCI Express
- CPU Type: _____
 - AN Atom N270
 - CD Core DUO
- Power Supply: _____
 - A AC
 - D DC
- Memory _____
 - 1G 1 GB in slot (Atom N270 Only)¹
 - 2G 2 GB in slot
 - 3G 3 GB in slot (Atom N270 Only)¹
 - 4G 4 GB 2 GB/slot 1 + 2 GB/slot 2 (CORE™2 DUO Only)
 - 6G 6 GB in slot (CORE™2 DUO Only)¹
 - 8G 8 GB in slot (CORE™2 DUO Only)¹
- 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 Device²
 - PSD 32GB SSD
 - SHD 250GB HDD
 - SSD 80GB SSD³
 - HSD 160GB SSD³
- Slide in Equipment: _____
 - Blank No Slide in Slot
 - DVD DVD writer
 - SHD HDD Standard (250GB)
 - PSD SSD 32GB
 - SSD SSD 80 GB³
 - HSD SSD 160 GB³
- Optional Equipment: _____
 - Blank No Additional Options
 - R True Mirror RAID (250GB HDD Only)³
 - COM COM Expansion Board RS-232C/422/485⁴
 - RCOM Com port + RAID (250GB HDD Only)
- Software: _____
 - Blank No Software
 - WGP WinGP v.3.x⁵

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)

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For more information
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