

PS-4000B 2 Slot
Model (Global Code): PFXPP1B2xxxxxxxN00

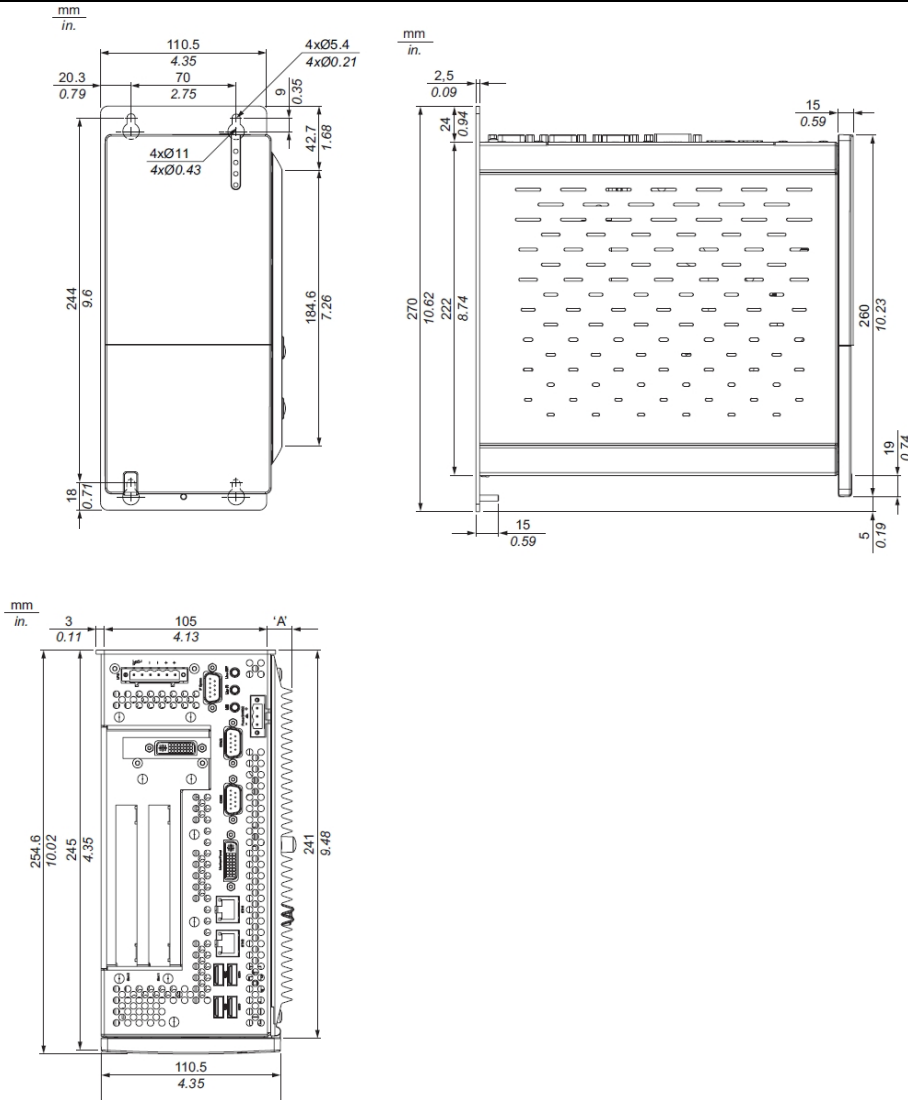
Functional Specification	
Supported OS	[Core™2 Duo] HDD or SSD: Windows® XP Professional SP3/Windows® 7 Ultimate CF: Windows® Embedded Standard 2009/Windows® Embedded Standard 7 [Atom™] HDD or SSD: Windows® XP Professional SP3 CF: Windows® Embedded Standard 2009*1
CPU	Core™2 Duo P8400 2.26 GHz or Atom™ N270 1.6 GHz
L2 Cache Memory	Core™2 Duo: 3 MB Atom™: 512 KB
Main Memory	Core™2 Duo: 2 GB to 8 GB max. (DDR3 1,066 MHz) Atom™: 1 GB to 3 GB max. (DDR2 533 MHz)*2
Chipset	Core™2 Duo: GM45 Atom™: 945GME
Graphics Accelerator	Core™2 Duo: Intel® Graphics Media Accelerator (GMA) 4500 MHD Atom™: Intel® Graphics Media Accelerator 950
Video Memory	Core™2 Duo: Up to 384 MB Atom™: Up to 224 MB*3
Graphics	[Core™2 Duo] RGB: 300 MHz RAMDAC, up to 2048 x 1536 @70 Hz (QXGA) including 1920 x 1080 @85 Hz (HDTV) DVI: 1920 x 1080 Color Depth: 32 bit (Maximum) [Atom™] RGB: 400 MHz RAMDAC, up to 2048 x 1536 @75 Hz (QXGA) including 1920 x 1080 @85 Hz
Interface	Serial ATA Slide-in Disk: (HDD or SSD) x1, Slide-in Slot: (HDD or SSD or DVD-RW) x1
	IDE 4 GB or 8 GB CF Card (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*4
	Video DVI-I x1, DVI-D x1 (Optional)
	Expansion Slot "PCI x1 and PCI Express(x4)*5 x1" or "PCI x2"

- *1: For details on languages supported by pre-installed operating systems, read "The List of OS Pre-installed Languages for Multi-language". (<http://www.pro-face.com/product/psc4000/spec/language.html>) The capacity of Windows® Embedded Standard 7 CF Card is 8 GB only.
- *2: Unable to be added by users.
- *3: Reserved from main memory.
- *4: Maximum 500 mA per connection for USB2, USB4
Maximum 1 A per connection for USB1, USB3, USB5
- *5: The values in the brackets indicate the number of PCI Express lanes.

General Specification	
Supported Standards and Regulations	UL508, ANSI/ISA12.12.01, CSA C22.2 No.142, CSA C22.2 No213, EMC 2004/108/EC, LVD 2006/95/EC, KC, ATEX, C-TICK, GOST-R, GL*6
Rated Input Voltage	24 Vdc ±25 %
Power Consumption	Core™2 Duo: 90 W Atom™: 60 W*7
In-Rush Current	Typ. 7 A, 50 A < 300 μs
Surrounding Air Temperature	0 to 50 °C [32 to 122 °F]*8
Storage Temperature	- 20 to +60 °C [- 4 to +140 °F]
Ambient Humidity	10 to 85 % RH (Wet bulb temperature: 29 °C [84.2 °F] max. - no condensation)
Storage Humidity	10 to 85 % RH (Wet bulb temperature: 29 °C [84.2 °F] max. - no condensation)
Pollution Degree	For use in Pollution Degree 2 environment
Air Pressure (altitude range)	2,000 m [6,560 ft] max.
Vibration Resistance	Operation (continuous): 2 to 9 Hz: 1.75 mm [0.07 in.], 9 to 200Hz: 4.9 m/s ² Operation (occasional): 2 to 9 Hz: 3.5 mm [0.14 in.], 9 to 200 Hz: 9.8 m/s ² Merchant Navy (continuous): 3 to 13.2 Hz: 1 mm [0.04 in.], 13.2 to 100 Hz: 6.9 m/s ² Shock Resistance (in operation): 147 m/s ² for a duration of 11 ms (IEC 60068-2-6 Fc)
Electromagnetic Compatibility (EMC)	Immunity to High Frequency Interference Electromagnetic Emissions Class A
Structure	IP20
Cooling Method	Core™2 Duo: Fan kit with filter. Fan speed is controlled by internal temperature. Fan does not operate unless internal temperature reaches the set temperature. Atom™: Passive heat sink, Fanless operation
Weight Approx.	[Core™2 Duo] 6.0 kg (13.2 lbs) [Atom™] 5.0 kg (11.0 lbs)
External Dimensions	Core™2 Duo: W136 x H270 x D251 mm [W5.35 x H10.63 x D9.89 in.] Atom™: W121 x H270 x D251 mm [W4.76 x H10.63 x D9.89 in.]

- *6: GL requires to mount a noise filter for marine certification. It confines the next configuration "CPU type: Atom N270, Storage: CF or SSD".
- *7: The value does not include the power supplied to the devices for expansion slots or USB devices, which you attach.
The product's maximum power consumption including the power supplied to them is 130W.
- *8: Surrounding air temperature depends on what feature or option you use. When you use PS-B unit without FAN unit (Atom™ N270):
0 to 45 °C [32 to 113 °F] when using Gigabit Ethernet; 5 to 40 °C [41 to 104 °F] when using DVD-RW.
When you use PS-B unit with FAN unit (Core™2 Duo P8400): 5 to 50 °C [41 to 122 °F] when using DVD-RW.

External Dimensions



	Core™2 Duo	Atom™ N270
A	28 mm (1.103 in.)	12.8 mm (0.503 in.)

The following table shows the general tolerances for Industrial Personal Computer 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 (1.18...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.)

Pro-face's PS4000 Series website <http://www.pro-face.com/product/ipc/ps4000/>