**Features:**
- Can be installed remotely from FP3000 Series units.
- CPU: CoreTM2 Duo P8400 or AtomTM N270
- "Slide-in slot" for quick & easy storage expansion
- Intelligence Fan (CoreTM2 Duo P8400 model only)
- Graphics: Up to 2,048 x 1,536 (QXGA)
- Power Consumption: 90W (Core 2 Duo) / 60W (Atom) or less

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**PS4000B Node Box**

**Models:**
- PS4000B Series (Build to Order)

**Input Voltage:**
- 24 Vdc ±25%

**Power Consumption:**
- Core2 Duo: 90 W (max.)
- Atom: 60 W (max.)

**In-Rush Current:**
- Typically 7 A, max. 50 A < 300 μs

**Storage Temperature:**
- –20 to +50 °C (–4 to +122 °F)

**Certifications:**
- UL508, CE (EN55011 Class A, EN61000-6-2, EN60950-1), RoHS, GOST, ATEX, UL/c-UL, CSA C22.2 No. 142, CSA C22.2 No. 213, ANSI/ISA 12.12.01 Electrical Equipment for use in Class I Division 2. Hazardous Locations

**Surrounding Air Temperature:**
- 0 to 50 °C (32 to 122 °F) (under normal conditions)

**Ambient Humidity:**
- 10 to 85 % RH (max. - no condensation)

**Cooling Method:**
- Core2 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

**Air Pressure (altitude range):**
- 2,000 m (6,560 ft) max

**Vibration Resistance:**
- Operation (continuous): 2 to 9 Hz: 1.5 mm (0.07 in.)
- Operation (occasional): 2 to 9 Hz: 3.5 mm (0.14 in.)
- Merchant Navy: 3 to 13.2 Hz: 1 mm (0.04 in.)
- Shock Resistance (in operation): 147 m/s² for a duration of 11 ms (IEC 68-2-6 Fc)

**Electromagnetic Compatibility (EMC):**
- Immunity to High-Frequency Interference. Electromagnetic Emissions Class A

**Ratings:**
- IP65, Standard ENIEC 61131-2

**Weight:**
- 4.0 kg (8.8 lbs) / 7.0 kg (15.4 lbs)

**Dimensions:**
- Dimensions dependant on unit model. Please reference the PS4000 Manual for exact dimensions for specified unit.

**Warranty:**
- Two (2) years

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**Performance Specifications**

<table>
<thead>
<tr>
<th>Models</th>
<th>PS4000B Series (Build to Order)</th>
</tr>
</thead>
</table>
| 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, 32 bit |
| CPU | Core2 Duo P8400: 2.26 GHz or Atom N270: 1.6 GHz (only available on 1 or 2 slot models) |
| L2 Cache Memory | Core2 Duo: 4 GB (DDR3 1066 MHz)
- Atom: 2 GB (DDR2 533 MHz) (only available on 1 or 2 slot models) |
| Main Memory | Core2 Duo: 4 GB (DDR3 1066 MHz)
- Atom: 2 GB (DDR2 533 MHz) (only available on 1 or 2 slot models) |
| Video Memory | Core2 Duo: Up to 384 MB
- Atom: Up to 224 MB (only available on 1 or 2 slot models) |
| Graphics | (Core2 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 (HDTV) DVI: 1920 x 1080 Color Depth: 32 bit (maximum) |

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**Interface**

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
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</table>
| Serial ATA | Slide-in Disk (HDD or SSD) x1
- Slide-in Slot (HDD or SSD or DVD-RW) x1 |
| 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 x4 |
| Video Output | DVI-x1
- DVI-D-x1 (Optional) |
| Expansion Slot | PCI (1 or 2 slots)
- PCI Express (1 or 3 slots) |

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**Technical notes:**
- *1 Surrounding air temperature depends on what feature or option you use. When you use PS-B unit without FAN unit (AtomN270)
- *2 Surrounding air temperature is limited to 0 to 45°C (32 to 113°F) when using Gigabit Ether, 5 to 40°C (41 to 104°F) when using DVD-RW
- *3 Surrounding air temperature depends on what feature or option you use. When you use PS-B unit with FAN unit (Core2Duo P8400), 5 to 50°C (41 to 122°F) when using DVD-RW
**External Dimensions**

**PS-4000B (5 Slots)**

**PS-4000B (2 Slots)**

**PS-4000B (1 Slot)**

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### Ordering Information

**PS4000-V1**

- **Expansion Slot:**
  - 1P............. 1 Slot - PCI
  - 1P1E........... 2 Slot - 1 PCI/1 PCI Express
  - 2P............. 2 Slot-2 PCI Slots
  - 2P3E........... 5 Slot - 2 PCI/3 PCI Express

- **CPU Type:**
  - AN........... Atom N270
  - CD........... Core DUO

- **Power Supply:**
  - -D............. DC

- **Memory:**
  - -2GB........... 2 GB in slot (Atom N270 Only)
  - -4GB........... 4 GB 2 GB/slot 1 + 2 GB/slot 2 (CORE™2 DUO Only)

- **Operating System:**
  - Blank........ No 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
  - -PSD........... 60GB SSD**
  - -SHD........... 500GB HDD**
  - -SSD.......... 80GB SSD
  - -HSD.......... 160GB SSD

- **Slide in Equipment:**
  - Blank........ No Slide in Slot
  - -DVD......... DVD writer
  - -SHD......... HDD Standard
  - -DVDSHD....... DVD writer + HDD maximum size
  - -SSD........... SSD 80 GB
  - -DVDSSD....... DVD writer + SSD 80GB
  - -HSD........... SSD 160 GB
  - -DVDHSD....... DVD writer + SSD 160GB
  - -DVDPSSD..... DVD Writer + SSD 32GB

- **Optional Equipment:**
  - Blank........ No Additional Options
  - -R............. True Mirror RAID (250GB HDD Only)
  - -DVI......... DVI-D I/F Expansion Board
  - -RDVI........ RAID + second DVI (250GB HDD Only)
  - -COM........... COM Expansion Board RS-232C/422/485
  - -DVICOM...... DVI-D I/F Expansion Board+COM Expansion Board RS-232C/422/485
  - -RCOM......... Com port + RAID (250GB HDD Only)
  - -RDVICOM..... RAID + second DVI + Com port (250GB HDD Only)

- **Software:**
  - Blank........ No Software
  - -WGP......... WinGP v.3.x (Windows 7(32 bit) Ultimate Only)

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*Please contact your sales representative to determine if the node configuration is available as a standard option.

*There may be longer lead time for certain nonstandard configurations that require a Product Modification.

**ATEX-Certified drive.**

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