

# PDSMA+

Products ▶ Motherboards ▶ Xeon® 3200 Boards ▶ [ PDSMA+ ]



- Lead-Free
- Best PCI Legacy Solution
- Best Single CPU Dual Core Server

## Key Features

1. Intel® Xeon® 3200 / 3000 Series, Core™ 2 Quad / Duo / Extreme Series, Pentium® D, Pentium Extreme Edition, Pentium 4 & Celeron D in LGA775 Package (FSB 1066/800/533)
2. Intel® 3000 Chipset
3. Up to 8GB unbuffered, ECC DDR2 667/533 SDRAM
4. 1x Intel® 82573V PCI-e Gigabit LAN  
1x Intel® 82573L PCI-e Gigabit LAN
5. Built-in SATA ICH7R Controller  
4x SATA (3 Gbps) Drive with RAID 0, 1, 5, 10 Support
6. 1 (x8) PCI-Express  
1x 64-bit 133MHz PCI-X,  
5x PCI 33MHz
7. On board XGI Z7Graphics 16MB
8. IPMI 2.0 support

## Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)

## Specifications

**Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.**

**MBD-PDSMA+-O** ■ PDSMA+ (Standard Retail Pack)

**MBD-PDSMA+-B** ■ PDSMA+ (Bulk Pack)

### Physical Stats

**Form Factor** ■ ATX

**Dimensions** ■ 12.0" width x 9.6 " length , (30.5cm x 24.4cm), 6 layers

### Processor/Cache

- CPU**
- Single LGA775 ZIF Socket
  - Supports a Quad-Core Intel® Xeon® 3200 series processor
  - Supports a Dual-Core Intel® Xeon® 3000 series processor
  - Supports a Quad-Core Intel® Core™2 Extreme series processor
  - Supports an Intel® Core™2 Quad series processor
  - Supports an Intel® Core™2 Duo series processor
  - Supports an Intel® Pentium® processor E2000 series
  - Supports a Dual-Core Intel® Pentium® D processor
  - Supports an Intel® Pentium® Extreme Edition processor
  - Supports an Intel® Pentium® 4 processor
  - Supports an Intel® Celeron® processor E1000 series
  - Supports an Intel® Celeron® processor 400 series
  - NOTE: This board DOES NOT support Q9000, E8000, E7000, E5000 series or 45nm processor

**System Bus** ■ 1066 / 800 / 533 MHz system bus

### System Memory

- Memory Capacity**
- Four 240-pin DIMM sockets
  - Supports up to 8 GB of unbuffered, ECC/Non-ECC DDR2 667/533 MHz memory (Dual Channel)
- Memory Type**
- DDR2 667/533MHz unbuffered, ECC SDRAM, 240-pin gold-plated DIMMs
- DIMM Sizes**
- 256 MB, 512 MB, 1 GB, 2GB
- Memory Voltage**
- 1.8V only

### Chassis ( Optimized for PDSMA+ )

**3U / Mid-Tower** ■ CSE-733T-645

**4U / Tower** ■ CSE-742i-420

### Expansion Slots

**PCI** ■ 5x 32-bit 33MHz PCI (5V) slots

**PCI-X** ■ 1x 64-bit PCI-X 133MHz Slot

**PCI-Express** ■ 1 (x8) PCI-Express Slot

### System BIOS

**BIOS Type** ■ 8Mb Flash EEPROM with Phoenix BIOS®

- BIOS Features**
- Plug and Play (PnP)
  - DMI 2.3 support
  - PCI 2.2
  - ACPI 1.0 (limited)
  - USB Keyboard support
  - SMBIOS 2.3
  - PECI

### Management

- Software**
- Optional IPMI (Intelligent Platform Management Interface) 2.0
  - SuperDoctor® III
  - Watch Dog
  - W83793 Hardware Monitor

- Power Configurations**
- ACPI Power Management
  - Main Switch Override Mechanism
  - Wake-On-Ring (WOR) header
  - Wake-On-LAN (WOL) header
  - Power-on mode control for AC power loss recovery
  - Internal/External modem remote ring-on

### PC Health Monitoring

- Voltage**
- Monitors for CPU Cores, Memory +1.8V, Chipset +1.5V, VIT FSB, +3.3V, +5V, ±12V, 3.3V Standby, +5V Standby, VBAT
  - CPU Core 3-Phase-switching voltage regulator with auto-sense from 0.8375V-1.6000V
- FAN**
- Total of six 4-pin fan headers
  - 6 fans with tachometer monitoring
  - Status monitor for on/off control
  - Status monitor for speed control
  - Low noise fan speed control
  - Support 3-pin fans (without speed control)
  - Pulse Width Modulated (PWM) fan connector
  - Monitoring for CPU and chassis

On-Board Devices	
Chipset	<ul style="list-style-type: none"><li>Intel 3000 chipset</li><li>ICH7R SB + PXH-V</li></ul>
Serial ATA	<ul style="list-style-type: none"><li>Intel® ICH7R SATA2 (3 Gbps) controller built-in</li><li>Intel: RAID 0, 1, 5, 10 support (Windows Only)</li><li>Adaptec: RAID 0 (Two, three, four drives only) RAID 1 (Two hard drives only)</li></ul>
IPMI	<ul style="list-style-type: none"><li>1U support for Intelligent Platform Management Interface v.2.0 (<b>Optional: AOC-IMPI20-E</b>)</li></ul>
Network Controllers	<ul style="list-style-type: none"><li>1x Intel® 82573V Gigabit PCI-Express Ethernet</li><li>1x Intel® 82573L Gigabit PCI-Express Ethernet</li><li>Supports 10Base-T, 100Base-TX, 1000BASE-TX, RJ45 output</li></ul>
VGA	<ul style="list-style-type: none"><li>On-board XGI Z7 graphics, 16MB</li></ul>
Super I/O	<ul style="list-style-type: none"><li>Winbond 83627HG chip</li></ul>
Clock Generator	<ul style="list-style-type: none"><li>CK410</li></ul>

Input / Output	
Serial ATA	<ul style="list-style-type: none"><li>Four Serial ATA ports (3.0 Gbps performance)</li><li>Four SATA hard drives supported</li></ul>
IDE	<ul style="list-style-type: none"><li>One EIDE channel supports up to two UDMA IDE devices</li><li>IDE Master / Slave</li><li>Supports UDMA Mode 5, PIO Mode 4, and ATA/100</li></ul>
Floppy	<ul style="list-style-type: none"><li>1 Floppy controller; 1.44 MB</li></ul>
LAN	<ul style="list-style-type: none"><li>2x RJ45 LAN ports</li></ul>
USB	<ul style="list-style-type: none"><li>6x USB 2.0 compliant / 1.1 compatible</li><li>2x internal USB headers for 4 ports</li><li>2x USB Rear Ports</li></ul>
VGA	<ul style="list-style-type: none"><li>1x VGA Port</li></ul>
Keyboard / Mouse	<ul style="list-style-type: none"><li>PS/2 keyboard and mouse ports</li></ul>
Serial Ports	<ul style="list-style-type: none"><li>1x Fast UART 16550 serial port</li><li>1x Header</li></ul>
Parallel Port	<ul style="list-style-type: none"><li>1x Parallel Port Header</li></ul>

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Standard Retail Package			
	Part Number	Qty	Description
PDSMA+	MBD-PDSMA+-O	1	PDSMA+ Motherboard
Manual(s)	MNL-0907	1	Motherboard Manual for PDSMA+
I/O Cables	CBL-0022L	1	ATX Floppy Cable
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	4	SATA Cable (2Ft.)
I/O Shield	CSE-PT07L	1	I/O Shield for PDSMA+
Quick Reference Guide	MNL-0907-QRG	1	Quick Reference Guide

Note: Items in a Standard Retail Package may differ from items in a Standard Bulk Package.

Temperature	<ul style="list-style-type: none"><li>environment</li><li>CPU thermal trip support</li><li>Thermal Monitor (TM2) Support</li><li>PECI</li></ul>
LED	<ul style="list-style-type: none"><li>CPU / System Overheat LED</li><li>Standby Voltage Alert LED</li></ul>
Other Features	<ul style="list-style-type: none"><li>Chassis Intrusion Detection</li><li>Chassis Intrusion Header</li></ul>

Operating Environment	
Environmental Spec.	<ul style="list-style-type: none"><li>Operating Temperature: 10° to 35°C (50° to 95°F)</li><li>Non-operating Temperature: -40° to 70°C (-40° to 158°F)</li><li>Operating Relative Humidity: 8% to 90% (non-condensing)</li><li>Non-operating Relative Humidity: 5 to 95% (non-condensing)</li></ul>

OS Compatibility	
<ul style="list-style-type: none"><li>Please see our <a href="#">OS Compatibility Chart</a></li></ul>	

Regulatory	
FCC	<ul style="list-style-type: none"><li>Passed to meet FCC standard requirement</li></ul>

