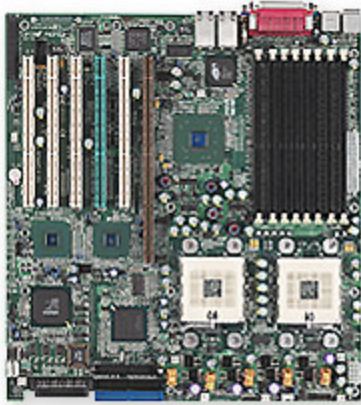


# P4DP8-G2

Products ▶ Motherboards ▶ Xeon Boards ▶ [ P4DP8-G2 ]



## Key Features

1. Dual Intel® Xeon® Support up to 3.0 GHz
2. Intel® E7500 Chipset
3. Up to 16GB DDR 200 SDRAM
4. Intel® 82546EB Dual Port Gigabit Ethernet Controller
5. Adaptec AIC-7902 Dual-Channel Ultra320 SCSI
6. 6x 64-bit PCI-X expansion slots
7. ATI RageXL 8MB PCI Graphic Controller
8. Zero-Channel RAID Support

## Links & Resources

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

## Specifications

### Physical Stats

Form Factor	Extended ATX
Dimensions	12" x 13.05" (30.5cm x 33.2cm)

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>• Dual mPGA603 ZIF Sockets</li> <li>• Supports up to two Intel® Xeon® processor(s) with 512KB of integrated Advanced Transfer Cache up to 3.0GHz</li> </ul>
System Bus	400MHz system bus

### System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>• Eight 184-pin DIMM sockets</li> <li>• Supports up to 16 GB DDR200 memory</li> <li>• Dual channel memory bus</li> <li>• Memory must be populated in pairs</li> </ul>
Memory Type	DDR266/200 registered ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
DIMM Sizes	128 MB, 256 MB, 512 MB, 1 GB, 2 GB
Memory Voltage	2.5 V only

### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>• Intel® E7500 chipset</li> <li>• MCH + ICH3-S + P64H2</li> </ul>
SCSI	<ul style="list-style-type: none"> <li>• Adaptec AIC-7902 Controller</li> <li>• Dual-Channel Ultra320 SCSI</li> </ul>
RAID	<ul style="list-style-type: none"> <li>• Support for Zero-Channel RAID with ZCR Card</li> <li>• Optional: (Card not included)</li> </ul>
IPMI	Support for Intelligent Platform Management Interface v.1.5 ( <u>Optional</u> )

### Chassis ( Optimized for P4DP8-G2 )

2U Chassis	<ul style="list-style-type: none"> <li>• <a href="#">SC822S-400LP</a></li> </ul>
3U Chassis	<ul style="list-style-type: none"> <li>• <a href="#">SC833S-R760</a></li> </ul>
Rackmount Tower / 4U	<ul style="list-style-type: none"> <li>• <a href="#">SC742S-420</a></li> <li>• <a href="#">SC742S-600</a></li> <li>• <a href="#">SC942S-600</a></li> </ul>
Important Note	To ensure system stability, a 350W (minimum) ATX power supply [8-pin +12V AND (20 or 24-pin)] is required.

### System BIOS

BIOS Type	4Mb Flash EEPROM with Phoenix® BIOS
BIOS Features	<ul style="list-style-type: none"> <li>• Plug and Play (PnP)</li> <li>• SMBIOS 2.3</li> <li>• DMI 2.1</li> <li>• ACPI 1.0</li> <li>• Hardware BIOS virus protection</li> </ul>

### Management

Software / Hardware	<ul style="list-style-type: none"> <li>• Optional IPMI (Intelligent Platform Management Interface) 1.5</li> <li>• Super Doctor III</li> <li>• Watch Dog</li> </ul>
Power Configurations	<ul style="list-style-type: none"> <li>• ACPI/APM Power Management</li> <li>• Main Switch Override Mechanism</li> <li>• Wake-On-Ring (WOR) header</li> <li>• Wake-On-LAN (WOL) header</li> <li>• Keyboard Wakeup from Soft-Off</li> <li>• CPU Fan auto-off in sleep mode</li> <li>• Power-on mode control for AC power loss recovery</li> <li>• Internal/External modem remote ring-on</li> </ul>

### PC Health Monitoring

<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>• Dual Port Intel® 82546EB Gigabit Ethernet</li> <li>• Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Graphics</b>	ATI Rage XL SVGA PCI video controller with 8 MB of video memory
<b>Input / Output</b>	
<b>PCI</b>	<ul style="list-style-type: none"> <li>• Max 2x 64-bit 133MHz PCI-X (3.3V) slots</li> <li>• 2x 64-bit 100MHz PCI-X (3.3V) slots</li> <li>• 3x 64-bit 66MHz PCI-X (3.3V) slots</li> <li>• 1x SXB (Supermicro Extended Bus) slot</li> </ul>
<b>IDE</b>	<ul style="list-style-type: none"> <li>• Dual EIDE channels support up to four UDMA IDE devices</li> <li>• Supports UDMA Mode 5, PIO Mode 4, and ATA/100</li> </ul>
<b>USB</b>	Up to 5 USB ports
<b>Serial Ports</b>	2 Fast UART 16550 serial ports
<b>Parallel Port</b>	1 ECP / EEP parallel port
<b>Floppy</b>	1 Floppy controller; 1.44 MB, 2.88 MB, 3-mode support
<b>Keyboard / Mouse</b>	PS/2 keyboard and mouse ports

<b>CPU</b>	<ul style="list-style-type: none"> <li>• Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, 3.3V Standby</li> <li>• CPU Core 3-Phase-switching voltage regulator w/ auto-sense from 1.3V-1.5V</li> <li>• Adjustable CPU clock frequency ratio settings (via BIOS)</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>• Total of seven 3-pin fan headers</li> <li>• 3x fans with tachometer monitoring</li> <li>• Overheat backup fan connector</li> <li>• Status monitor with firmware/software on/off control</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Monitoring for CPU, chassis, environment</li> <li>• CPU thermal trip support</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>• CPU Overheat LED</li> <li>• System Overheat LED</li> <li>• Suspend-state indicator LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>• Chassis intrusion detection</li> <li>• Chassis intrusion header</li> <li>• Chipkill support</li> </ul>

## Parts List

### Standard Retail Package

	Part Number	Qty	Description
<b>P4DP8-G2</b>	MBD-P4DP8-G2-O	1	P4DP8-G2 Motherboard
<b>Manual(s)</b>	MNL-0659	1	Motherboard Manual for P4DP8-G2
	MNL-0669	1	Ultra320 SCSI Manual
<b>Retention Kits</b>	SKT-095E	2	Xeon Heatsink Retention w/ Enhanced Clip
<b>Fans</b>	FAN-042CF	2	Pentium® 4, Xeon, Active Heat Sink w/ Copper fin
<b>I/O Cables</b>	CBL-010L-01	1	9-pin Serial Port Cable
	CBL-022	1	ATX Floppy Cable
	CBL-031	1	One Head USB Cable w/ Bracket
	CBL-034	1	LVD, Ultra320 SCSI Cable
	CBL-036L-02	1	ATA 66/100 IDE LP Cable
<b>Driver Disk</b>	CDR-INTC	1	Version 1.0 Chipset Driver CD
<b>I/O Shield</b>	CSE-PT7	1	I/O Shield for dual LAN

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