

# P4SGE

Products ▶ Motherboards ▶ Pentium® 4 Boards ▶ [ P4SGE ]



## Key Features

1. Intel® Pentium® 4 Support up to 3.06 GHz, Celeron® up to 2.2 GHz
2. Intel® 845GE Chipset
3. Up to 2GB DDR 333/266/200 SDRAM
4. Dual Intel® 82540EM Gigabit Ethernet Controllers
5. Dual ATA/100 IDE Channels
6. 5 x 32-bit 33MHz PCI (5V) slots
7. 4x AGP slot

## Links & Resources

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

## Specifications

### Physical Stats

<b>Form Factor</b>	ATX
<b>Dimensions</b>	12" x 9.5", (30.5cm x 24.13cm)

### Processor/Cache

<b>CPU</b>	<ul style="list-style-type: none"> <li>• Single mPGA478 ZIF Sockets</li> <li>• Supports an <b>Intel® Pentium® 4</b> processor with 512KB of integrated Advanced Transfer Cache up to 3.06GHz</li> <li>• Supports an <b>Intel® Celeron®</b> processor with 128KB of integrated Advanced Transfer Cache up to 2.2GHz</li> </ul>
<b>System Bus</b>	533 / 400MHz system bus

### System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>• Two 184-pin DIMM sockets</li> <li>• Supports up to 2 GB of DDR333/266/200 memory</li> </ul>
<b>Memory Type</b>	DDR333/266/200 non-ECC, unbuffered SDRAM, 184-pin gold-plated DIMMs
<b>DIMM Sizes</b>	256 MB, 512 MB, 1 GB
<b>Memory Voltage</b>	2.5 V only

### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>• Intel® 845GE chipset</li> <li>• GMCH + ICH4</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>• Dual Intel® 82540EM Gigabit Ethernet</li> <li>• Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Graphics</b>	On-chip <b>Intel® EXTREME Graphics Accelerator</b>

### Input / Output

<b>AGP</b>	4x AGP Slot
<b>PCI Expansion</b>	• 5x 32-bit 33MHz PCI (5V) slots

### Chassis ( Optimized for P4SGE )

<b>Mini-1U Chassis</b>	• <a href="#">SC512C</a>
<b>1U Chassis</b>	• <a href="#">SC811-IDEP4</a>
<b>2U Chassis</b>	• <a href="#">SC822S-400LP</a>
<b>Tower</b>	• <a href="#">SC762-420</a>

### Important Note

To ensure system stability, a 300W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)] is required.

### System BIOS

<b>BIOS Type</b>	4Mb Flash EEPROM with AwardBIOS®
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>• Plug and Play (PnP)</li> <li>• APM 1.2</li> <li>• DMI 2.3 support</li> <li>• PCI 2.2</li> <li>• ACPI 1.0</li> <li>• BIOS rescue hot keys</li> <li>• Hardware BIOS virus protection</li> <li>• USB Keyboard support</li> </ul>

### Management

<b>Software</b>	<ul style="list-style-type: none"> <li>• <a href="#">Super Doctor III</a></li> <li>• Watch Dog</li> </ul>
<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>• ACPI/APM Power Management</li> <li>• Real Time Clock Wake-up Alarm</li> <li>• Main Switch Override Mechanism</li> <li>• Wake-On-Ring (WOR) header</li> <li>• Wake-On-LAN (WOL) header</li> <li>• Suspend to RAM (STR)</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>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>CPU</b>	<ul style="list-style-type: none"> <li>• Monitors for CPU Cores, +3.3V, +5, ±12V, +3.3V/+5V Standby, VBAT</li> <li>• CPU Core 3-Phase-switching voltage regulator with auto-sense from 1.1V-1.85V</li> <li>• Adjustable CPU clock frequency ratio settings (via BIOS)</li> </ul>
<b>USB</b>	Up to 6 USB ports	<b>FAN</b>	<ul style="list-style-type: none"> <li>• Total of four 3-pin fan headers</li> <li>• 3x fans with tachometer monitoring</li> <li>• Status monitor with firmware/software on/off control</li> </ul>
<b>Infrared</b>	1 Infrared port header	<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Monitoring for CPU, chassis, environment</li> <li>• CPU thermal trip support</li> </ul>
<b>Serial Ports</b>	2 Fast UART 16550 serial ports	<b>LED</b>	<ul style="list-style-type: none"> <li>• CPU Overheat LED</li> <li>• System Overheat LED</li> <li>• +5V standby alert LED</li> <li>• Suspend-state indicator LED</li> </ul>
<b>Parallel Port</b>	1 ECP / EEP Parallel Port	<b>Other Features</b>	<ul style="list-style-type: none"> <li>• Chassis intrusion detection</li> <li>• Chassis intrusion header</li> </ul>
<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		

### Parts List

#### Standard Retail Package

	Part Number	Qty	Description
<b>P4SGE</b>	MBD-P4SGE-O	1	P4SGE Motherboard
<b>Manual(s)</b>	MNL-0663	1	Manual for P4SGE
<b>Retention Kits</b>	SKT-109	1	Pentium 4, 478 Pin CPU Retention Module
<b>I/O Cables</b>	CBL-010	1	9-pin Serial Port Cable
	CBL-022	1	ATX Floppy Cable
	CBL-036	1	ATA 66/100 IDE LP Cable
	CBL-041	1	USB 2.0 4-Port Cable with Key on 10
<b>Driver Disk</b>	CDR-INTC	1	Version 1.00 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.

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