P4SC8

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Key Features

1. Intel® Pentium® 4 Support up to 3.4 GHz, Celeron® up to 2.4 GHz
2. Intel® E7210 (Canterwood ES) Chipset
3. Up to 4GB DDR 400/333/266 SDRAM
4. 1x Intel® 82547GI CSA, 1x Intel® 82541 Gb Ethernet Controller
5. Intel® H6300ESB Serial ATA Controller
6. Adaptec AIC-7902 Dual-Channel Ultra320 SCSI
7. 2x 64-bit 66MHz PCI, 2x 32-bit 33MHz PCI (5V) slots
8. ATI RageXL 8MB PCI Graphic Controller

Links & Resources

- Recommended Chassis
- Tested Memory List
- Motherboard Manual
- Update Your BIOS
- Download the Latest Drivers and Utilities

Specifications

Physical Stats	
Form Factor	ATX
Dimensions	12" x 9.5", (30.5cm x 24.1cm)

Processor/Cache	
CPU	• Single mPGA478 ZIF Sockets • Supports an **Intel® Pentium® 4** processor with 2MB of integrated Advanced Transfer Cache up to 3.4GHz (Extreme Edition) • Supports an **Intel® Pentium® 4** processor with 1MB of integrated Advanced Transfer Cache up to 3.2GHz • Supports an **Intel® Celeron®** processor with 128KB of integrated Advanced Transfer Cache up to 2.8GHz • Hyper-threading enabled
System Bus	800 / 533 / 400MHz system bus

System Memory	
Memory Capacity	• Four 184-pin DIMM sockets • Supports up to 4 GB of DDR400/333/266 memory • Dual channel memory bus • Memory must be populated in pairs
Memory Type	DDR400/333/266 (ECC or non-ECC) unbuffered SDRAM, 184-pin gold-plated DIMMs
DIMM Sizes	128MB, 256 MB, 512 MB, 1 GB
Memory Voltage	2.5 V only

On-Board Devices	
Chipset	• Intel® E7210 (Canterwood ES) chipset • MCH + 6300ESB + FWH
SCSI	• Adaptec AIC-7902 Controller • Dual-Channel Ultra320 SCSI
RAID	▪Support for Zero-Channel RAID ▪Optional: (Card not included)
Serial ATA	• SATA Controller on-chip (Intel® 6300ESB) • Dual Serial ATA ports • RAID 0, 1 Supported
Network Controllers	• 1x Intel® 82547GI CSA Gigabit Ethernet Controller • 1x Intel® 82541 Gigabit Ethernet Controller • Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	ATI Rage XL SVGA PCI video controller with 8 MB of video memory

Input / Output	
PCI Expansion	• 2x 64-bit 66MHz PCI-X (3.3V) slots • 2x 32-bit 33MHz PCI (5V) slots
IDE	• Dual EIDE channels support up to four UDMA IDE devices • Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	1x Floppy controller; 1.44 MB, 2.88 MB, 3-mode support
USB	• 2x USB 2.0 / 1.1 ports • 1x USB header supports additional 2x USB 2.0 / 1.1 ports)
Serial Ports	2x Fast UART 16550 serial ports
VGA Port	1x VGA Port
Parallel Port	1x ECP/EEP Parallel Port
LAN Port	2x RJ45 Ports
Keyboard / Mouse	PS/2 keyboard and mouse ports

Chassis (Optimized for P4SC8)	
1U Chassis	• SC813MS-300C
2U Chassis	• SC822S-400LP
Rackmount Tower / 4U	• SC742S-420
Important Note	To ensure system stability, a 300W (minimum) ATX power supply [4-pin +12V AND (20 or 24-pin)] is required.

System BIOS	
BIOS Type	8Mb Flash EEPROM with AwardBIOS®
BIOS Features	• Plug and Play (PnP) • APM 1.2 • DMI 2.3 support • PCI 2.3 • ACPI 1.0 • BIOS rescue hot keys • Hardware BIOS virus protection • USB Keyboard support

Management	
Software	• SuperDoctor® III • Watch Dog
Power Configurations	• ACPI/APM Power Management • Main Switch Override Mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Suspend to RAM (STR) • Power-on mode control for AC power loss recovery • Internal/External modem remote ring-on

PC Health Monitoring	
Voltage	• Monitors for CPU Cores, +3.3V, +5, ±12V, +3.3V/+5V Standby, VBAT • CPU Core 3-Phase-switching voltage regulator w / auto-sense from 0.85V-1.65V • Adjustable CPU clock frequency ratio settings (via BIOS)
FAN	• Total of five 3-pin fan headers • 3x fans with tachometer monitoring • Status monitor with firmware/software on/off control
Temperature	• Monitoring for CPU, chassis, environment • CPU thermal trip support
LED	• CPU Overheat LED • System Overheat LED • +5V standby alert LED • Suspend-state indicator LED
Other Features	• Chassis intrusion detection • Chassis intrusion header

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**
P4SC8	MBD-P4SC8-O	1	P4SC8 Motherboard
Manual(s)	MNL-0718	1	Manual for P4SC8
	MNL-0669	1	Ultra320 SCSI Manual
Retention Kits	SKT-109	1	Pentium 4, 478 Pin CPU Retention Module
I/O Cables	CBL-010L-01	1	9-pin Serial Port Cable
	CBL-022	1	ATX Floppy Cable
	CBL-034	1	LVD, Ultra320 SCSI Cable
	CBL-036L-02	1	ATA 66/100 IDE LP Cable
	CBL-044L	2	2 Ft. Amphenol Serial ATA Cable
Driver Disk	CDR-INTC	1	Version 1.10 Chipset Driver CD
I/O Shield	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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