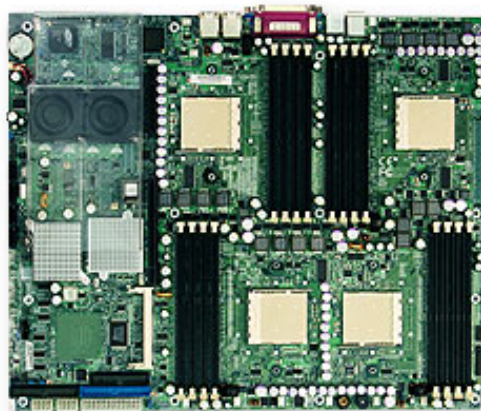


[A+ Products](#) ▶ [Motherboards](#) ▶ [[H8QCE+](#)]


- Best 1U Optimized Quad ServerBoard
- Lowest Cost 1U 8-way Dual Core Opteron

Key Features

1. Quad AMD® Opteron™ Support, (Dual Core Ready)
1000 MHz HyperTransport Link
2. nVidia® nForce Pro 2200 (CK804)
AMD8132 Chipset
3. Up to 32GB DDR400 SDRAM (or)
Up to 64GB DDR333 SDRAM (or)
Up to 64GB DDR266 SDRAM
4. Dual Gigabit (Intel 82546GB)
Ethernet Controller
5. 4 SATA ports
6. 1 HyperTransport,
1 PCI-Express x8
7. ATI Rage XL 8MB Graphics
8. 9 Fan support with Speed Control

Links & Resources

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

Specifications

Product SKUs

MBD-H8QC8+-B • H8QCE+ (Bulk Pack)

Physical Stats

Form Factor • Extended ATX
Dimensions • 16.4" x 13.0" (41.7 cm x 33.0cm)

Processor/Chipset

CPU

- Quad 940-pin ZIF Sockets
- Supports four **Dual-Core AMD Opteron™** 800 Series processor(s)
- HyperTransport Link (1000MHz)
- 8-way option has 2 HyperTransports using PCI-e, extra I/O or Pathscale communication device
- VRM x4

Chipset

- nVidia nForce Pro 2200 (CK804)
- AMD 8132 PCI-X Tunnel

System Memory

Chassis (Optimized for H8QCE+)

1U

- SC818i-1000 (OEM only)
- To ensure system stability, a 1000W (minimum) ATX power supply [8-pin (+12V), 8-pin (+12V) and 24-pin are required]

Important Chassis Notes

Input / Output

Serial ATA

- Integrated SATA2 Controller
- Four Serial ATA Connectors
- Four SATA hard drives supported
- Dual ATA 133/100 EIDE channels support up to four UDMA IDE devices

IDE

- Supports UDMA Mode 5
- Supports PIO Mode 4
- Supports ATA 100 / 133

Floppy LAN

- 1 Floppy port; 1.44 MB, 2.88 MB support
- 2 RJ45 LAN ports

- Four 184-pin DIMM sockets per processor memory bank
- Four memory banks for 4 processors (Quad).
- Supports up to 32 GB DDR 400 MHz memory or
- Supports up to 64 GB DDR 333/266 MHz memory
- Supports up to 64 GB registered ECC DDR for 4-way option
- Supports up to 128 GB memory for 8-way option only
- Single or Dual (recommended) channel memory support
- Recommended that memory be populated equally in adjacent memory banks
- DDR 400/333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
- 256 MB, 512 MB, 1GB, 2GB, 4GB**
- 2.5 V only
- Corrects single-bit errors
- Detects double-bit errors (using ECC memory)

Memory Capacity

Memory Type

DIMM Sizes

Memory Voltage

Error Detection

Expansion Slots

HyperTransport

PCI-Express

On-Board Devices

SATA

Network Controllers

IPMI

SIMSO

Graphics

Super I/O

Clock Generator

System BIOS

BIOS Type

BIOS Features

- 1 HyperTransport slot for 8-way or extra I/O as a Pathscale communication device
- 1 PCI-e x8 slots
- nVidia nForce Pro 2200 SATA2 Controller
- 4 SATA Ports
- nVidia RAID 2.0
- SATA RAID 0, 1, 0+1 support
- Dual Intel 82546GB Ethernet Controllers
- Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- 1U support for Intelligent Platform Management Interface v.2.0
- (Optional: AOC-IPMI20-E) Card not included
- Supermicro Intelligent Management SO-DIMM v.2.0 Support
- (SIMSO Card not included)
- ATI Rage XL 8MB
- Winbond 83627HF-AW
- CK804

- 8Mb Flash EEPROM with AMI® BIOS
- SST49LF080A
- Plug and Play (PnP)
- PCI 2.2
- DMI 2.3
- ACPI 2.0
- BIOS Rescue Hot Keys
- USB Keyboard Support
- SMBIOS 2.3

- FUCI
- Up to 4 USB Ports 2.0 Compliant, 1.1 Compatible
- 2 rear ports
- 1 internal header for 2 ports
- 1 VGA port
- PS/2 keyboard and mouse ports
- 1 Fast UART 16550 serial port
- 1 Header
- 1 ECP/EPP parallel port

USB

VGA

Keyboard / Mouse

Serial Ports

Parallel Ports

Management

Software

Power Configurations

- SIMSO (Supermicro Intelligent Management SO-Dimm) 2.0 Support
- [Super Doctor III](#)
- Watch Dog
- ACPI/API Power Management
- Wake-On-LAN (WOL) header
- Wake-On-Ring (WOR) header
- Power-on mode control for AC power loss recovery
- Keyboard WakeUp from Soft-Off
- Internal/External modem remote ring-on

PC Health Monitoring

CPU

FAN

Temperature

LED

Other Features

- Monitors CPU Core Voltages +5V, ±12V & VBAT
- Up to 9 fan status
- Supports System Management Utility
- Total up to nine 3-pin fan headers
- 9 Tachometer Monitoring
- Status Monitor for Speed Control
- Low Noise Fan Speed Control
- Overheat Backup Fan Connector
- Monitoring for CPU and chassis environment
- CPU Thermal Trip Support
- Thermal Control for 9 Fan Connectors
- I²C Temperature Sensing Logic
- CPU / System Overheat LED
- Suspend-State Indicator LED
- Fan Fail LED
- Chassis Intrusion Header
- Chassis Intrusion Detection

Parts List

Bulk Pack List

	Part Number	Qty	Description
H8QC8+	MBD-H8QCE+-B	1	H8QCE+ Motherboard
Manual(s)	MNL-H8QCE+	-	Motherboard Manual for H8QCE+ (Not In Bulk Package)
I/O Cables	CBL-022	1	ATX Floppy Cable
	CBL-036L-02	1	ATA 100/133 IDE LP Cable
Driver Disk	CDR-A+NVDA	1	Version 1.0 (or newer) Chipset Driver CD
Air Shroud	CSE PT0115	1	Motherboard Air Shroud
Retention	BKT-0004	4	Retention Bracket
	BKT-0005L	4	Retention Bracket

**4GB memory modules not fully tested due to limited availability

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