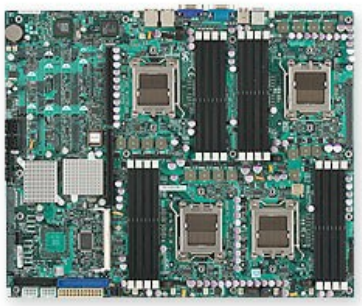
H8QME-2+



Key Features

1. Four Six-Core / Quad-Core / Dual-Core AMD Opteron™ 8000 Series (Socket F) support; HT3.0 Link support ^
2. nVidia MCP55 Pro / AMD 8132 Chipsets
3. Up to 128GB DDR2-800/667/533 SDRAM
4. Intel 82546GB Dual-port Gigabit LAN/Ethernet Controller
5. 6 SATA2 3.0Gbps Ports
6. 1 (x16), PCI-Express, 1 HyperTransport (HTX) Slots
7. SIMSO IPMI 2.0 Support
8. 9 Fan Support with Speed Control

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-H8QME-2+-O	H8QME-2+ (Standard Retail Pack)
MBD-H8QME-2+-B	H8QME-2+ (Bulk Pack)

Physical Stats

Form Factor	Proprietary
Dimensions	16" x 13" (40.6cm x 33.2cm)

Processor/Chipset

CPU	Quad 1207-pin Socket F Supports up to four **Six-Core / Quad-Core / Dual-Core AMD Opteron™ 8000 Series** processors HT3.0 Link support ^
Chipset	nVidia MCP55 Pro AMD 8132

System Memory

Memory Capacity	Sixteen 240-pin DIMM sockets Supports up to 128GB DDR2 800/667/533 MHz memory Single or Dual (recommended) channel memory support For Quad CPUs: Recommended that memory be populated equally in adjacent memory banks
Memory Type	DDR2 800/667/533MHz Reg. ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	256MB, 512MB, 1GB, 2GB, 4GB, 8GB
Memory Voltage	1.8V only
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	nVidia MCP55 Pro SATA2 3.0Gbps Controller 6 SATA2 Ports nVidia RAID 2.0 SATA RAID 0, 1, 0+1, 5, JBOD Support
IPMI	Support for Intelligent Platform Management Interface v.2.0 200-pin IPMI slot (SIMSO) (**Optional: AOC-SIMSO R 3.00**) **NOTE:** KVM-over-LAN not supported - there is no DVO signal to the IPMI slot RMM (Remote Management Module) (Card not included) **For Dedicated LAN, cable CBL-0177L must be used (cable sold separately)**
Network Controllers	Intel® 82546GB Dual Port Gigabit Ethernet Controller Supports 10BASE-T, 100BASE-TX, and

Chassis (Optimized for H8QME-2+)

Chassis 1U	CSE-818TQ+-1000 (Riser card : **CSE-RR1U-E16** Rev.3.2)
Important Chassis Notes	To ensure system stability, a 1000W (minimum) ATX power supply [8-pin & 8-pin (+12V) and 24-pin are required]

Server(s) (with H8QME-2+)

Model(s)	AS -1041M-T2

Input / Output

SATA	6 SATA2 ports
IDE	Single EIDE channel support up to two UDMA IDE devices Supports UDMA Mode 5 Supports PIO Mode 4 Supports ATA 100/133
Floppy	1 Floppy port; 1.44 MB support
LAN	2 RJ45 LAN ports
USB	FUCI Up to 4 USB Ports 2.0 Compliant 2 Rear Ports 2 Internal Headers
Keyboard / Mouse	PS/2 keyboard and mouse ports
Serial Ports	1 Fast UART 16550 serial ports 1 Header
VGA	1 VGA port
Others	1 SATA DOM power connector

Management

Software	Optional IPMI (Intelligent Platform Management Interface) 2.0 Super Doctor III Watch Dog
Power Configurations	ACPI Power Management Main Switch Override Mechanism Wake-On-Ring (WOR) header Wake-On-LAN (WOL) header Keyboard Wakeup from Soft-Off Power-on mode control for AC power loss recovery Internal/External modem remote ring-on

PC Health Monitoring

CPU	Monitors CPU Core Voltages, +3.3V, +5V, +12V, 5V Standby, VBAT CPU switching voltage regulator
FAN	Total up to 9-fan status tachometer monitoring Up to nine 3-pin fan headers Status monitor for speed control Support 3-pin fans with fan-speed control Low noise fan speed control
	Monitoring for CPU and chassis

	1000BASE-T, RJ45 output
Super I/O	▪ Winbond 83627HF
VGA	▪ ATI ES1000 Graphics Controller 16MB Graphics & VGA port

System BIOS

BIOS Type	▪ 8Mb Flash EEPROM with AMI® BIOS ▪ SST 49LF080A BIOS Chip
BIOS Features	▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 2.0 ▪ USB Keyboard Support ▪ SMBIOS 2.3

Expansion Slots

PCI-Express	▪ 1 x16 PCI-e Slots
HyperTransport	▪ 1 HyperTransport (HTX) Connectors

Temperature	environment ▪ CPU Thermal Trip Support ▪ PC Temperature Sensing Logic
LED	▪ CPU / System Overheat LED ▪ Suspend-State Indicator LED ▪ +5V Standby Alert LED
Other Features	▪ Chassis Intrusion Detection ▪ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	▪ RoHS Compliant 5/6, Server Exemption
Environmental Specifications	▪ Operating Temperature: 10°C to 35°C (50°F to 95°F) ▪ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) ▪ Operating Relative Humidity: 8% to 90% (non-condensing) ▪ Non-operating Relative Humidity: 5% to 95% (non-condensing)

OS Compatibility

• Please see our **OS Compatibility Chart**

Regulatory

FCC	▪ Passed to meet FCC standard requirement

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

Parts List

Retail Pack List

	Part Number	Qty	Description
H8QME-2+	MBD-H8QME-2+ -O	1	H8QME-2+ Motherboard
Retention	BKT-0012L	4	RETENTION MODULE FOR AMD CPU SOCKET F,ROHS
I/O Cable 1	CBL-022L	1	ATX FLOPPY CABLE 3 HEADERS PB FREE
I/O Cable 2	CBL-036L-03	1	18" ATA 133/100/66 3-DROP TPE CABLE, PBF
Air Shroud	CSE-PT0115L-A	1	AMD 1U QUAD MB CHIPSET AIR SHROUD WITH 2X FAN-0089, ROHS

^ HT Link speed supporting depends on AMD Opteron processor spec.

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