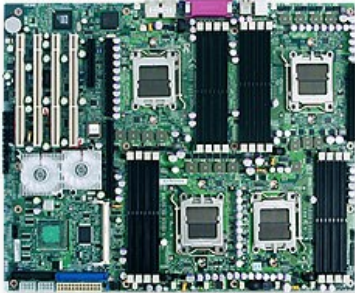


H8QME-2

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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)*, 1 (x8) PCI-e, 2 64-bit 133/100MHz PCI-X, 2 64-bit 100MHz PCI-X, 2 HyperTransport (HTX)
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. Please contact sales-rep for possible OEM production quantities. MOQ may apply

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	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ nVidia MCP55 Pro ■ AMD 8132
System Memory	
Memory Capacity	<ul style="list-style-type: none"> ■ Sixteen 240-pin DIMM sockets ■ Supports up to 128 GB 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 buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	■ 256MB, 512MB, 1GB, 2GB, 4GB, 8GB
Memory Voltage	■ 1.8V only
Error Detection	<ul style="list-style-type: none"> ■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)
On-Board Devices	
SATA	<ul style="list-style-type: none"> ■ nVidia MCP55 Pro SATA2 3.0Gbps Controller ■ 6 SATA2 Ports ■ nVidia RAID 2.0 ■ SATA RAID 0, 1, 0+1, 5, JBOD Support
IPMI	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Intel® 82546GB Dual Port Gigabit Ethernet Controller ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T RJ45 output

Chassis (Optimized for H8QME-2)	
Important Chassis Notes	<ul style="list-style-type: none"> ■ 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-4041M-T2R
Input / Output	
SATA	<ul style="list-style-type: none"> ■ 6 SATA2 ports
IDE	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ FUCI ■ Up to 8 Ports 2.0 Compliant ■ 2 Rear Ports ■ 2 Internal Headers
Keyboard / Mouse	■ PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> ■ 1 Fast UART 16550 serial port ■ 1 Header
Parallel Port	■ 1 ECP / EPP parallel port
VGA	■ 1 VGA port
Others	■ 1 SATA DOM power connector
Management	
Software	<ul style="list-style-type: none"> ■ Optional IPMI (Intelligent Platform Management Interface) 2.0 ■ Super Doctor III ■ Watch Dog
Power Configurations	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Monitors CPU Core Voltages, +3.3V, +5V, +12V, 5V Standby, VBAT ■ CPU switching voltage regulator
FAN	<ul style="list-style-type: none"> ■ 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
Temperature	<ul style="list-style-type: none"> ■ Monitoring for CPU and chassis environment ■ CPU Thermal Trip Support ■ PC Temperature Sensing Logic

Super I/O	<ul style="list-style-type: none">Winbond 83627HF
VGA	<ul style="list-style-type: none">ATI ES1000 Graphics Controller16MB Graphics & VGA port
System BIOS	
BIOS Type	<ul style="list-style-type: none">8Mb Flash EEPROM with AMI® BIOSSST 49LF080A BIOS Chip
BIOS Features	<ul style="list-style-type: none">Plug and Play (PnP)DMI 2.3PCI 2.2ACPI 2.0USB Keyboard SupportSMBIOS 2.3
Expansion Slots	
PCI-Express	<ul style="list-style-type: none">1 x16 PCI-e Slot*1 x8 PCI-e Slot
PCI-X	<ul style="list-style-type: none">2 64-bit 133/100MHz PCI-X (3.3V) slots2 64-bit 100MHz PCI-X (3.3V) slot
HyperTransport	<ul style="list-style-type: none">2 HyperTransport (HTX) Connectors

LED	<ul style="list-style-type: none">CPU / System Overheat LEDSuspend-State Indicator LED+5V Standby Alert LED
Other Features	<ul style="list-style-type: none">Chassis Intrusion DetectionChassis Intrusion Header
Operating Environment / Compliance	
RoHS	<div><ul style="list-style-type: none">RoHS Compliant 5/6, Server Exemption</div>
Environmental Specifications	<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Please see our OS Compatibility Chart	
Regulatory	
FCC	<ul style="list-style-type: none">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-0044L	6	57.5CM SATA FLAT S-S PBF
I/O Cable 2	CBL-010L	1	9 PIN SERIAL PORT DTK CABLE, LF
I/O Cable 3	CBL-022L	1	ATX FLOPPY CABLE 3 HEADERS PB FREE
I/O Cable 4	CBL-036L-03	1	18" ATA 133/100/66 3-DROP TPE CABLE, PBF
I/O Shield	CSE-PT7L	1	I/O SHIELD FOR DUAL LAN MOTHERBOARD, PB FREE

* Cannot populated with PCI-E x16 VGA cards
^ HT Link speed supporting depends on AMD Opteron processor spec.