H8QM8-2+

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. 2-Channel Ultra320 SCSI
6. 1 (x16) PCI-Express, 1 HyperTransport (HTX) Slot
7. SIMSO IPMI 2.0 Support
8. 9 Fan Support with Speed Control

Links & Resources

- Tested Memory List
- Tested HDD 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-H8QM8-2+-O	▪ H8QM8-2+ (Standard Retail Pack)
MBD-H8QM8-2+-B	▪ H8QM8-2+ (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	
SCSI	▪ Adaptec AIC-7902W Controller ▪ Dual-Channel Ultra320 SCSI with Host RAID (Host RAID only supports 4 drives) ▪ Host RAID 0, 1, 10, JBOD
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 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 Slot
HyperTransport	▪ 1 HyperTransport (HTX) Connectors

Chassis (Optimized for H8QM8-2+)	
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 H8QM8-2+)	
Model(s)	▪ AS -1041M-82

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 port ▪ 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) headert ▪ 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
Temperature	▪ Monitoring for CPU and chassis 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
H8QM8-2+	MBD-H8QM8-2+ -O	1	H8QM8-2+ 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
Driver Disk	CDR-A+NVDA2	1	DRIVER CD FOR MCP55 CHIPSET A+ MB
I/O Shield	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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