




- About Us
 - Products
 - Support
 - Newsroom
 - Where To Buy
-
- corporate profile
 - company milestones
 - investor relations
 - careers
 - contact
 - policies

H8DME-2

[A+ Products](#) ▶ [Motherboards](#) ▶ [[H8DME-2](#)]

	<h3 style="margin: 0;">Key Features</h3> <ol style="list-style-type: none"> 1. Dual AMD® Opteron™ 2000 Series (Socket F) Support, 1000 MHz HyperTransport Link 2. nVidia MCP55 Pro / NEC uPD720400 Chipset 3. Up to 32GB DDR2 667 SDRAM Up to 32GB DDR2 533 SDRAM Up to 64GB DDR2 400 SDRAM 4. Dual-port Gigabit LAN/Ethernet Controller 5. 6 SATA2 3.0Gb/s HDD Support 6. 2 x8 PCI-e, 2 64-bit 133/100MHz PCI-X, 2 64-bit 100MHz PCI-X 7. ATI ES1000 Graphics 8. SIMLC IPMI 2.0 Support 9. 8 Fan Support with Speed Control 	<h3 style="margin: 0;">Links & Resources</h3> <ul style="list-style-type: none"> ▶ Recommended Memory ▶ Motherboard Manual ▶ Update Your BIOS ▶ Download the Latest Drivers and Utilities
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Specifications

Product SKUs

- MBD-H8DME-2-O** ▪ H8DME-2 (Standard Retail Pack)
- MBD-H8DME-2-B** ▪ H8DME-2 (Bulk Pack)

Chassis (Optimized for H8DME-2)

- [CSE-825TQ-560LPV](#) *
- [CSE-825TQ-R700LPV](#) *

Physical Stats

Form Factor	▪ Extended ATX
Dimensions	▪ 12" x 13.05" (30.5cm x 33.2cm)

Processor/Chipset

CPU	▪ Dual 1207-pin Socket F ▪ Supports up to two AMD Opteron™ 2000 Series (Socket F) processor(s) ▪ Dual-core Support
System Bus	▪ 1000MHz HyperTransport
Chipset	▪ nVidia MCP55 Pro ▪ NEC uPD720400

System Memory

Memory Capacity	▪ Sixteen 240-pin DIMM sockets ▪ Supports up to 32 GB DDR2 667 MHz memory ▪ Supports up to 32 GB DDR2 533 MHz memory ▪ Supports up to 64 GB DDR2 400 MHz memory ▪ For Single CPU: Memory must be populated in CPU1 DIMMs only ▪ For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks ▪ Dual channel memory bus
Memory Type	▪ DDR2 667/533/400 MHz buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 256 MB, 512 MB, 1GB, 2GB, 4GB
Memory Voltage	▪ 1.8 V only

On-Board Devices

SATA	▪ nVidia MCP55 Pro SATA2 3.0Gbps Controller ▪ 6 SATA 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 ▪ (Optional: AOC-SIMLC(+)) ▪ (Optional: AOC-SIM1U(+))

2U Chassis

* Please use air-shroud MCP-310-00025-01 (Air-shrouds sold separately)

Rackmount Tower / 4U	▪ CSE-745TQ-800 ▪ CSE-745TQ-R800 ▪ CSE-745TQ-700 ▪ CSE-745TQ-R700 ▪ CSE-743TQ-R760 ▪ CSE-743T-R760 ▪ CSE-743i-R760 ▪ CSE-743T-650 ▪ CSE-743i-650
Important Chassis Notes	▪ To ensure system stability, a 420W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required]

Expansion Slots

PCI-Express	▪ 2 x8 PCI-e slots ▪ 1 SEPC (Supermicro extended Power Connector) slot for 2U active riser cards with a power extension (i.e. CSE-RR2UE-AX)
PCI-X	▪ 2 64-bit 133/100MHz PCI-X (3.3V) slots ▪ 2 64-bit 100MHz PCI-X (3.3V) slot
IPMI	▪ IPMI 2.0 expansion slot

System BIOS

BIOS Type	▪ 8Mb Flash EEPROM with AMI® BIOS
BIOS Features	▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 2.0 ▪ BIOS Rescue Hot Keys ▪ USB Keyboard Support ▪ Hardware BIOS Virus Protection ▪ SMBIOS 2.3

Management

Software	▪ Optional IPMI (Intelligent Platform Management Interface) 2.0 ▪ Super Doctor III ▪ Watch Dog ▪ ACPI Power Management ▪ Wake-On-Ring (WOR) headert ▪ Wake-On-LAN (WOL) header
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	<ul style="list-style-type: none"> ▪ RMM (Remote Management Module) (Card not included)
Network Controllers	<ul style="list-style-type: none"> ▪ nVidia MCP55 Pro Chipset Dual-port LAN / Ethernet Controller ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
VGA	<ul style="list-style-type: none"> ▪ ATI ES1000 Graphics Controller
Super I/O	<ul style="list-style-type: none"> ▪ Winbond 83627HF
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	<ul style="list-style-type: none"> ▪ 1 Floppy port; 1.44 MB support
LAN	<ul style="list-style-type: none"> ▪ 2 RJ45 LAN ports
USB	<ul style="list-style-type: none"> ▪ FUCI ▪ Up to 6 USB Ports 2.0 Compliant, 1.1 Compatible ▪ 2 Rear Ports ▪ 4 Internal Headers
VGA	<ul style="list-style-type: none"> ▪ 1 VGA port
Keyboard / Mouse	<ul style="list-style-type: none"> ▪ PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> ▪ 1 Fast UART 16550 serial port ▪ 1 serial port header

Power Configurations	<ul style="list-style-type: none"> ▪ Keyboard Wakeup from Soft-Off ▪ Power-on mode control for AC power loss recovery ▪ Internal/External modem remote ring-on
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PC Health Monitoring

CPU	<ul style="list-style-type: none"> ▪ Monitors CPU Core Voltages, +1.5V, +3.3V, +5V, ±12V, 5V Standby, HyperTransport Link voltage 1.2V, memory voltage 1.8V, VBAT ▪ CPU 4-Phase-switching voltage reulator
FAN	<ul style="list-style-type: none"> ▪ Total up to 8-fan status tachometer monitoring ▪ Up to six 3-pin and two 4-pin fan headers ▪ Status monitor for speed control ▪ Stauts monitor for on/off control ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ CPU Thermal Trip Support ▪ Thermal Control for 8x Fan Connectors ▪ I²C Temperature Sensing Logic
LED	<ul style="list-style-type: none"> ▪ CPU / System Overheat LED ▪ Suspend-State Indicator LED ▪ +5V Standby Alert LED
Other Features	<ul style="list-style-type: none"> ▪ Chassis Intrusion Detection ▪ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	 <ul style="list-style-type: none"> ▪ RoHS Compliant 5/6, Server Exemption
Environmental	<ul style="list-style-type: none"> ▪ Operating Temperature: 10° to 35° C (50° to 95° F) ▪ Non-operating Temperature: -40° to 70° C (-40° to 158° F)

- Spec.**
- 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](#)

Parts List

Retail Pack List

	Part Number	Qty	Description
H8DME-2	MBD-H8DME-2-B	1	H8DME-2 Motherboard
Manual(s)	MNL-H8DME-2	-	Motherboard Manual for H8DME-2 (Not In Bulk Package)
I/O Cables	CBL-010	1	I/O Cable
	CBL-022	1	ATX Floppy Cable
	CBL-036L-02	1	ATA 100/133 IDE LP Cable
	CBL-0044	6	2Ft. SATA Cable
Driver Disk	CDR-A+NVDA2	1	Version 1.01 (or newer) Chipset Driver CD
I/O Shield	CSE-PT7L	1	I/O Shield for Dual LAN
Retention	BKT-0012L	2	Retention Bracket

** 8 DIMM DDR2 667 not validated
 ** 4-rank memory modules are not supported

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