

Supermicro H8DME-2



Key Features

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

Product SKUs

- | | |
|---------------|---|
| MBD-H8DME-2-O | • H8DME-2 (Standard Retail Pack) |
| MBD-H8DME-2-B | • H8DME-2 (Bulk Pack) |

Physical Stats

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|-------------|---|
| Form Factor | • Extended ATX |
| Dimensions | • 12" x 13.05" (30.5cm x 33.2cm) |

Processor/Chipset

- | | |
|------------|---|
| CPU | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • nVidia MCP55 Pro • NEC uPD720400 |

System Memory

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|-----------------|--|
| Memory Capacity | <ul style="list-style-type: none"> • 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 |
|-----------------|--|

Chassis (Optimized for H8DME-2)

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|-------------------------|---|
| | <ul style="list-style-type: none"> • <u>CSE-825TQ-560LPV *</u> • <u>CSE-825TQ-R700LPV *</u> |
| 2U Chassis | <p>* Please use air-shroud MCP-310-00025-01 (Air-shrouds sold separately)</p> <ul style="list-style-type: none"> • <u>CSE-745TQ-800</u> • <u>CSE-745TQ-R800</u> • <u>CSE-745TQ-700</u> • <u>CSE-745TQ-R700</u> |
| Rackmount Tower / 4U | <ul style="list-style-type: none"> • <u>CSE-743TQ-R760</u> • <u>CSE-743T-R760</u> • <u>CSE-743i-R760</u> • <u>CSE-743T-650</u> • <u>CSE-743i-650</u> |
| Important Chassis Notes | <ul style="list-style-type: none"> • To ensure system stability, a 420W (minimum) ATX power supply [4-pin (+12V), 8-pin (+12V) and 24-pin are required] |

Expansion Slots

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|-------------|--|
| PCI-Express | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 2 64-bit 133/100MHz PCI-X (3.3V) slots • 2 64-bit 100MHz PCI-X (3.3V) slot |
| IPMI | <ul style="list-style-type: none"> • IPMI 2.0 expansion slot |

	<ul style="list-style-type: none"> memory be populated equally in adjacent memory banks Dual channel memory bus
Memory Type	<ul style="list-style-type: none"> DDR2 667/533/400 MHz buffered (registered) ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 256 MB, 512 MB, 1GB, 2GB, 4GB
Memory Voltage	<ul style="list-style-type: none"> 1.8 V only

On-Board Devices

SATA	<ul style="list-style-type: none"> nVidia MCP55 Pro SATA2 3.0Gbps Controller 6 SATA Ports nVidia RAID 2.0 SATA RAID 0, 1, 0+1, 5, JBOD Support
IPMI	<ul style="list-style-type: none"> Intelligent Platform Management Interface v.2.0, Low Profile (Optional: AOC-SIMLC) 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

System BIOS

BIOS Type	<ul style="list-style-type: none"> 8Mb Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> 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	<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 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	<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 1°C Temperature Sensing Logic
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend-State Indicator LED

Keyboard /
Mouse

- PS/2 keyboard and mouse ports

Serial Ports

- 1 Fast UART 16550 serial port
- 1 serial port header

Other Features

- +5V Standby Alert LED
- Chassis Intrusion Detection
- Chassis Intrusion Header

Operating Environment / Compliance



RoHS

- [RoHS Compliant 5/6, Server Exemption](#)

Environmental
Spec.

- Operating Temperature: 10° to 35° C (50° to 95° F)
- Non-operating Temperature: -40° to 70° C (-40° 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](#)

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