

A+ Server 4021M-82R+ / 4021M-82R+B

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Integrated Board



Super H8DM8-2

Available Colors: Black Beige

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Key Features

1. Two Six-Core AMD Opteron™ 2000 Series (Socket F) processor support; HT3.0 Link support
2. Up to 128GB DDR2 800/667/533 SDRAM; 16 DIMM Sockets
3. 2 x8 PCI-e, 2 64-bit 133/100MHz PCI-X, 2 64-bit 100MHz PCI-X
4. nVidia MCP55 Pro / NEC uPD720400 Chipset
5. 8x 3.5" Hot-swap U320 SCSI Drive Bays
6. Dual-port Gigabit LAN/Ethernet Controller
7. 800W Redundant Power Supply

Specifications

Product SKUs

AS-4021M-82R+ ■ A+ Server 4021M-82R+ (Beige)

AS-4021M-82R+B ■ A+ Server 4021M-82R+B (Black)

Motherboard

Super H8DM8-2

Processor/Chipset

CPU ■ Dual 1207-pin Socket F
■ Supports up to two **Six-Core AMD Opteron™ 2000 Series** (Socket F) processors
■ HT3.0 Link support

Chipset ■ nVidia MCP55 Pro
■ NEC uPD720400

System Memory

Memory Capacity ■ 16x 240-pin DIMM sockets support up to 128GB DDR2 800/667/533/400 SDRAM *
■ 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 800/667/533/400 MHz Reg. ECC SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes ■ 256 MB, 512 MB, 1GB, 2GB, 4GB, 8GB

Memory Voltage ■ 1.8V only

On-Board Devices

SCSI ■ Adaptec AIC-7902W Controller
■ Dual-Channel Ultra320 SCSI with Host RAID
■ Host RAID 0, 1, 10, JBOD

Zero Channel RAID ■ Support for Zero-Channel RAID
■ Optional: (Card not included)

IPMI ■ Intelligent Platform Management Interface v.2.0, Low Profile
■ (Optional: **AOC-SIMLC R 3.00**)
■ (Optional: **AOC-SIM1U+ R 3.00**)
■ RMM (Remote Management Module)
■ (Card not included)

Network Controllers ■ nVidia MCP55 Pro Chipset Dual-port LAN / Ethernet Controller
■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

VGA ■ ATI ES1000 Graphics Controller

Super I/O ■ Winbond 83627HF

Input / Output

IDE ■ Single EIDE channel support up to two UDMA IDE devices
■ Supports UDMA Mode 5
■ Supports PIO Mode 4

Chassis

Form Factor ■ Tower / 4U Rackmountable
■ Optional Rackmount Kit (CSE-PT26)

Model ■ [SC745S2-R800](#)

Dimensions

Height ■ 7.0" (178mm)

Width ■ 17.2" (437mm)

Depth ■ 25.5" (648mm)

Gross Weight ■ -

Available Colors ■ Beige, Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

LEDs ■ Power LED
■ Hard drive activity LED
■ 2x Network activity LEDs
■ System Overheat LED
■ Power Fail LED

Ports ■ 2x USB Ports

Drive Bays

Hot-swap ■ 8 x 3.5" Hot-swap (U320 SCSI) Drive Bays

Peripheral Bay(s) ■ 2x 5.25" Peripheral Drive Bay
■ 1x 5.25" Bay For Floppy Drive

Expansion Slots

PCI-Express ■ 2 x8 PCI-e slots

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

Backplane

1x SCSI Hard Drive Backplane

System Cooling

Fans ■ 3x 5000 RPM Hot-Swappable Cooling Fans
■ 2x 5000 RPM Hot-Swappable Rear Exhaust Fan

Shrouds ■ 1x Air Shroud

Power Supply and Distributor

800W (1 + 1) Redundant AC-DC high-efficiency power supply w/ PFC

AC Voltage ■ 100 - 240V, 50-60Hz, 10-4 Amp

+5V standby ■ 4 Amp

+12V ■ 66 Amp

With Power Distributor ■ +5V: 30 Amp
■ +3.3V: 24 Amp
■ -12V: 0.6 Amp

PC Health Monitoring

■ Monitors CPU Core Voltages, +1.5V, +3.3V, +5V, ±12V, 5V Standby, HyperTransport

	<ul style="list-style-type: none"> ■ 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 B 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
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

CPU	<ul style="list-style-type: none"> ■ 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 eight 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 ■ +5V Standby Alert LED
Other Features	<ul style="list-style-type: none"> ■ Chassis Intrusion Detection ■ Chassis Intrusion Header

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-H8DM8-2	1	Super H8DM8-2 Motherboard
	CSE-745S2-R800(B)	1	4U SC745S2-R800 Chassis (B = Black)
Cable(s)	CBL-0037L-U320	1	6", 2-Drop Ultra320 SCSI Cable
	CBL-0043L	1	9", 2-Drop Round SCSI Cable
	CBL-0084	1	6" 16-pin Front Control Split Cable
	CBL-0087	1	20" 16-pin to 16-pin Round Ribbon Cable
	CBL-0160L	1	Power Cord
	CBL-209L	3	210mm 4-pin to 3-pin Fan Power Cable
Fan(s)	FAN-0072L	3	5000 RPM Hot-Swappable Cooling Fan
	FAN-0081L	2	5000 RPM Hot-Swappable Rear Exhaust Fan
Hard Drive	CSE-PT17(B)	8	1" Hard Drive Carrier Trays (B = Black)
	CSE-SCA-743S2	1	Dual-Channel U320 SCSI Backplane with SAF-TE
Heatsink Components	SNK-P0023P	2	Passive Heatsink for AMD Socket F CPUs
Power Supply	PWS-801-1R	2	SP801-1R 800W Power Supply (Redundant)
	CSE-PT745-PDN24	1	Power Supply Backplane
	CSE-PT0130	1	Dummy Power Cover
Air Shroud	CSE-PT0123	1	Air Shroud

Optional Parts List			
	Part Number	Qty	Description
Mounting Rails	CSE-PT26	-	SC748 4U Chassis Mounting Rails
Peripheral Drives	FPD-PNSC-02 (01)	1	Panasonic 3.5" 1.44MB Floppy Drive (01 = Black)