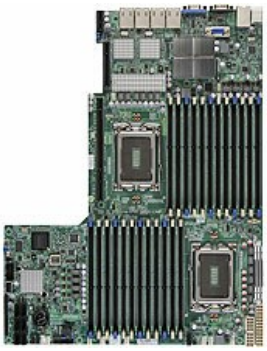
H8DGU-LN4F+



Key Features

1. Dual AMD Opteron™ 6000 series processors (Socket G34) 16/12/8/4-Core ready; HT3.0 Link support
2. AMD SR5690 / SP5100 Chipset
3. Up to 768GB DDR3 1600MHz ECC Registered DIMM; 24x DIMM sockets
4. Expansion slot:
   1U Left Slot:
   1 PCI-E 2.0 x16 and UIO or
   2 PCI-E 2.0 x8 or
   1 PCI-E 2.0 x16 or
   1 PCI-E 2.0 x8 and UIO
   2U Left Slot:
   2 PCI-E 2.0 x8 and UIO or
   3 PCI-E 2.0 x8 or
   1 PCI-E 2.0 x16 and UIO
   2U Right Slot:
   3 PCI-E 2.0 (x4 + x1 + x1)
   (via RSC-R2UU-2E2E4R Riser Card)
   (See Optional Part List)
5. 6x SATA (3.0 Gb/s) ports + 2x Intel 82576 dual-port GbE (4x LAN ports)
6. Integrated IPMI 2.0 + KVM with dedicated LAN
7. Integrated Matrox G200eW Graphics
8. 7x USB 2.0 ports (2x rear / 2x internal header (4 ports) / 1x Type-A)

Links & Resources

- Tested Memory List
- Tested HDD List
- Motherboard Manual
- Update Your BIOS
- IPMI Firmware
- Download the Latest Drivers and Utilities
- Download Driver CD
- OS Compatibility

AMD OPTERON

Specifications

Product SKUs - Discontinued SKU (EOL). Please contact sales-rep for alternative options.

MBD-H8DGU-LN4F+	▪ H8DGU-LN4F+ (Bulk Pack)

Physical Stats

Form Factor	▪ Proprietary
Dimensions	▪ 12.8" x 16.5" (32.51cm x 41.91cm)

Processor/Chipset

CPU	▪ Dual 1944-pin Socket G34 ▪ Supports up to two **16/12/8/4-Core ready AMD Opteron™ 6000 Series processors** ▪ HT3.0 Link support
Chipset	▪ AMD chipset SR5690 / SP5100

System Memory

Memory Capacity	▪ 24 DIMM sockets ▪ Supports up to 768GB Registered ECC or 128GB Unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 24 DIMMs ▪ Quad channel memory bus ▪ For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks ▪ See Detailed Memory Support Matrix
Memory Type	▪ DDR3 1600/1333/1066 MHz Registered ECC or Unbuffered ECC/non-ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	▪ 1GB, 2GB, 4GB, 8GB, 16GB, 32GB
Memory Voltage	▪ 1.35V or 1.5V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

On-Board Devices

SATA	▪ AMD SP5100 (RAID 0, 1, 10)
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM over LAN support

Server(s) (with H8DGU-LN4F+)

Model(s)	▪ AS -1122G-URF4+ ▪ AS -2022G-URF4+

System BIOS

BIOS Type	▪ 16Mb 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	▪ IPMI (Intelligent Platform Management Interface) 2.0 ▪ Super Doctor III ▪ Watch Dog
Power Configurations	▪ ACPI Power Management ▪ Power-on mode control for AC power loss recovery

PC Health Monitoring

CPU	▪ Monitors CPU Core Voltages, +3.3V, +5V, ±12V, HyperTransport Link voltage, memory voltage, VBAT, Chipset voltage ▪ CPU switching voltage regulator
FAN	▪ Total up to 8-fan status tachometer monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Low noise fan speed control
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU Thermal Trip Support ▪ Thermal Control for 8x Fan Connectors ▪ I^2C Temperature Sensing Logic
LED	▪ CPU / System Overheat LED ▪ Suspend-State Indicator LED ▪ +5V Standby Alert LED ▪ UID/Remote LED

	▪ Winbond® WPCM450 BMC
Network Controllers	▪ 2x Intel® 82576 controller, Dual-Port Gigabit Ethernet ▪ 10/100/1000BASE-T support
VGA	▪ Matrox G200eW 16MB DDR2
Super I/O	▪ Winbond 83527HG chip

Input / Output

SATA	▪ 6x SATA (3Gb/s) Ports
LAN	▪ 4 RJ45 LAN ports ▪ 1x RJ45 Dedicated LAN supports IPMI
USB	▪ 7x USB 2.0 ports ▪ 2x Rear, 2x header(4 ports), 1x Type A
VGA	▪ 2x VGA port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Ports	▪ 1 Fast UART 16550 serial port ▪ 1 serial port header
Others	▪ 1UID, 1 SATA DOM power connector, TPM header

Expansion Slots

PCI-Express (Gen 2.0)	▪ **1U Left Slot:** 1 PCI-E 2.0 x16 and UIO or 2 PCI-E 2.0 x8 or 1 PCI-E 2.0 x16 or 1 PCI-E 2.0 x8 and UIO ▪ **2U Left Slot:** 2 PCI-E 2.0 x8 and UIO or 3 PCI-E 2.0 x8 or 1 PCI-E 2.0 x16 and UIO ▪ **2U Right Slot:** 3 PCI-E 2.0 (x4 + x1 + x1) (via RSC-R2UU-2E2E4R Riser Card) (See Optional Part List)

Other Features	▪ Chassis Intrusion Detection ▪ Chassis Intrusion Header

Operating Environment / Compliance

RoHS	▪ RoHS Compliant 6/6, Pb Free
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

Bulk Pack List

	Part Number	Qty	Description
Motherboard	MBD-H8DGU-LN4F+	1	H8DGU-LN4F+ Motherboard
Retention	BKT-0035L	2	AMD SOCKET G34 CPU HS RETENTION MODULE
I/O Cable 1	CBL-0044L	2	57.5CM SATA FLAT S-S PBF

Optional Parts List

	Part Number	Qty	Description
1U Riser Cards	RSC-R1UU-2E8	-	2 PCI-E (x8) Slot - Left Side
	RSC-R1UU-E16	-	1 PCI-E (x16) Slot - Left Side
	RSC-R1UU-UAX	-	1 Universal I/O (UIO) Slot + PCI-X 133MHz Slot - Left Side
	RSC-R1UU-UE8	-	1 Universal I/O (UIO) Slot + 1 PCI-E (x8) - Left Side
	RSC-R1UU-UE16	-	1 Universal I/O (UIO) Slot + 1 PCI-E (x16) - Left Side
2U Riser Cards	RSC-R2UU-UAX	-	1 UIO Slot + 1 133MHz, 2 133/100MHz PCI-X Slots - Left Side
	RSC-R2UU-UA3E8+	-	1 UIO and 3 PCI-E x8 slots
	RSC-R2UU-A4E8+	-	4 PCI-E x8 slots
	RSC-R2UU-3E8G	-	3 PCI-E x8 (in x16) slots ?Left Side
	RSC-R2UU-2E2E4R	-	1PCI-E x4 slot + 2PCI-E x2 (in x4) slots - Right Side

* Please refer to our Riser card matrix

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