

H8SGL-F

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Key Features



1. Single AMD Opteron™ 6100 Series processors (G34) Twelve/Eight-Core ready; HT3.0 Link support
2. AMD SR5650 + SP5100 Chipset
3. Up to 128GB DDR3 Registered ECC or 32GB DDR3 Unb. ECC/non-ECC 1333/1066/800 SDRAM in 8 DIMMs
4. Two Intel® 82574L controllers, Dual-Port Gigabit Ethernet
5. 6x SATA2 3.0 Gbps Ports via AMD SP5100 controller, RAID 0, 1, 10
6. 1/1/1/3 PCI-E 2.0 x8 (in x16) / x8 / x4 (in x8) / PCI
7. Integrated Matrox G200 Graphics
8. IPMI 2.0 with Dedicated LAN support

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)



Specifications

Product SKUs

- | | |
|--------------------|----------------------------------|
| MBD-H8SGL-F | ▪ H8SGL-F (Standard Retail Pack) |
|--------------------|----------------------------------|

Physical Stats

- | | |
|--------------------|------------------------------|
| Form Factor | ▪ ATX Form |
| Dimensions | ▪ 12" x 8" (30.5cm x 20.3cm) |

Processor/Chipset

- | | |
|----------------|---|
| CPU | <ul style="list-style-type: none"> ▪ Single 1944-pin Socket G34 ▪ Supports one Twelve/Eight-Core ready AMD Opteron™ 6100 Series processors ▪ HT3.0 Link support |
| Chipset | ▪ AMD chipset SR5650 + SP5100 |

System Memory

- | | |
|------------------------|--|
| Memory Capacity | <ul style="list-style-type: none"> ▪ Eight DIMM sockets ▪ Support up to 128GB DDR3 1333/1066/800 MHz memory ▪ Quad channel memory bus ▪ See Detailed Memory Support Matrix |
| Memory Type | ▪ DDR3 1333/1066/800 MHz Registered ECC SDRAM or Unbuffered ECC/non-ECC 72-bit, 240-pin gold-plated DIMMs |
| DIMM Sizes | ▪ 256MB, 512MB, 1GB, 2GB, 4GB, 8GB, 16GB |
| Memory Voltage | ▪ 1.35V or 1.5V |

On-Board Devices

- | | |
|----------------------------|--|
| SATA | ▪ AMD SP5100 (RAID 0, 1, 10) |
| IPMI | <ul style="list-style-type: none"> ▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM over LAN support ▪ Winbond® WPCM450 BMC |
| Network Controllers | <ul style="list-style-type: none"> ▪ Two Intel® 82574L controller, Dual-Port Gigabit Ethernet ▪ 10/100/1000BASE-T support |

Recommended Chassis

- | | |
|-------------------|---|
| 1U Chassis | ▪ SC512F-350B, SC813MTQ-350CB, SC113MTQ-563CB |
| Mid-Tower | ▪ SC733T-465 |

System BIOS

- | | |
|----------------------|---|
| BIOS Type | ▪ 16Mb SPI Flash ROM with AMI® BIOS |
| BIOS Features | <ul style="list-style-type: none"> ▪ Plug and Play (PnP) ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 2.0 ▪ USB Keyboard Support ▪ SMBIOS 2.3 |

Management

- | | |
|-----------------------------|--|
| Software | <ul style="list-style-type: none"> ▪ IPMI (Intelligent Platform Management Interface) 2.0 ▪ Super Doctor III |
| Power Configurations | <ul style="list-style-type: none"> ▪ ACPI Power Management ▪ Wake-On-LAN (WOL) header ▪ Keyboard Wakeup from Soft-Off ▪ Power-on mode control for AC power loss recovery |

PC Health Monitoring

- | | |
|--------------------|--|
| CPU | <ul style="list-style-type: none"> ▪ Monitors CPU Core Voltages, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, VBAT, HT, memory, chipset ▪ CPU switching voltage regulator |
| FAN | <ul style="list-style-type: none"> ▪ Up to 6-fan status tachometer monitoring ▪ Up to six 4-pin fan headers ▪ Status monitor for speed control ▪ 3-pin fan support (w/o speed control) ▪ Low noise fan speed control (4-pin fan only) ▪ Pulse Width Modulated (PWM) fan connectors |
| Temperature | <ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ CPU Thermal Trip Support ▪ Thermal Wakeup for 6x Fan connectors |

VGA	▪ Matrox G200 16MB DDR2
Super I/O	▪ Winbond® W83527 chip
Input / Output	
SATA	▪ 6x SATA2.0 (3Gb/s) Ports
LAN	▪ 2 RJ45 LAN ports ▪ 1 RJ45 Dedicated LAN supports IPMI
USB	▪ 8x USB 2.0 ports ▪ 2x Rear, 4x header, and 2x TypeA
VGA	▪ 1x VGA port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Ports	▪ 1x Fast UART 16550 serial port ▪ 1x serial port header
Expansion Slots	
PCI-E/PCI	▪ 1/1/1/3 PCI-E 2.0 x8 (in x16) / x8 / x4 (in x8) / PCI

	▪ I ² C Temperature Sensing Logic
LED	▪ CPU / System Overheat LED ▪ +5V Standby Alert LED
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
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Parts List

Retail Pack List

	Part Number	Qty	Description
Motherboard	MBD-H8SGL-F	1	H8SGL-F Motherboard
Manual	MNL-H8SGL-F	-	Motherboard Manual for H8SGL-F
I/O Cables	CBL-0010L	1	9-pin Serial Port Cable
	CBL-0036L-03	1	ATA 66/100 IDE LP Cable
	CBL-0044L	6	2ft. Amphenol, SATA Cable
Driver Disk	CDR-APLUS2	1	Version 1.02 (or newer) Chipset Driver CD
I/O Shield	MCP-260-00003-00	1	Standard I/O shield
Retention	BKT-0035L	1	Retention Bracket

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