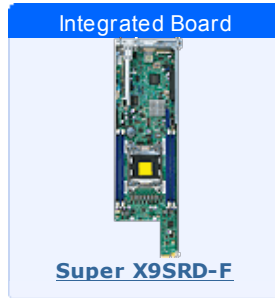


SuperServer 5037MR-H8TRF



Key Features (per node)

1. Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. 2x 3.5" Hot-sw ap SATA3 (6 Gbps)
3. 1x (x8) PCI-E 3.0 low -profile slot
4. Up to 128GB DDR ECC RDIMM or 32GB DDR ECC UDIMM; 4x DIMMs
5. 2x GbE LAN ports via Intel® i350
6. 1x Dedicated LAN for IPMI Remote Management
7. 4x 8cm Heavy duty fans with optimal cooling zone
8. 1620W Redundant 80Plus Platinum Level power supplies

Product Review

Note: Image above may show a varied configuration or optional parts, Please refer to parts list for standard parts included.

Specifications

Product SKUs	
SuperServer	■ SYS-5037MR-H8TRF (Black)
Motherboard	
Motherboard	■ MBD-X9SRD-F
Processor/Cache	
CPU	■ Intel® Xeon® processor E5-2600 (up to 8 cores and up to 130W) ■ Single Socket R (LGA 2011)
Cache	■ Up to 20MB
System Bus	■ QPI up to 8 GT/s
System Memory (per node)	
Memory	■ 4x 240-pin DDR3 DIMM sockets ■ Supports up to 128 GB DDR3 ECC Registered memory (RDIMM)
Capacity	■ Supports up to 32 GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	■ 1600/1333/1066MHz ECC DDR3, 240-pin gold-plated DIMMs
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	■ 1.5 V
Error Detection	■ Corrects single-bit errors ■ Detects double-bit errors (using ECC memory)

Chassis	
Form Factor	■ 3U
Model	■ CSE-938H-R1620B
Dimensions	
Height	■ 5.21" (132.5 mm)
Width	■ 17.26" (438.4 mm)
Depth	■ 23.2" (589 mm)
Weight	■ 62.2 lbs (28.21 kg) - barebone
Color	■ Black
Front Panel	
Buttons	■ Power On/Off button
LEDs	■ Power LED ■ Node status LED
Expansion Slots (per node)	
PCI-Express	■ 1 (x8) PCI-E 3.0 Low -profile slot ■ MicroLP Adapter Matrix ■ UIO AOC Compatibility Matrix
Drive Bays (per node)	
Hot-sw ap	■ 2x 3.5" hot-sw ap SATA3 (6Gbps) HDDs per node; up to 16 HDDs total ■ Enterprise SATA HDD only recommended

On-Board Devices (per node)

Chipset	■ Intel® C602J Chipset
SATA	■ 1x SATA DOM ■ SATA 3.0 6Gbps with RAID 0, 1, 5, 10
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 w with virtual media over LAN and KVM over LAN support ■ Nuvoton WPCM450 BMC
Headers	■ 1 USB header & 1 Type A USB, TPM ready
Graphics	■ Matrox G200eW 16MB DDR2
Super I/O	■ Nuvoton WPCM450RA0BX

Network Devices (per node)

MicroLP NIC	■ Intel® i350, 2x Gigabit LAN ports ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ■ Intel® I/OAT 3 support for fast, scaleable, and reliable networking ■ VMDq support for better performance of virtualization
-------------	---

Input / Output (per node)

Serial ATA	■ 2x SATA 3.0 ports (6Gbps)
LAN	■ 2x RJ45 Gigabit Ethernet LAN ports ■ 1x RJ45 Dedicated IPMI LAN port
KVM	■ 1x VGA, 1x COM, and 2x USB 2.0 (w ith KVM dongle) ports

System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM w ith AMI BIOS
BIOS Features	■ Plug and Play (PhP) ■ APM 1.2 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3 ■ RTC (Real Time Clock) Wakeup

Rear Window (each node)

Switch	■ Power / UID
--------	---------------

System Cooling

Fans	■ 4x 8cm 11K RPM, 4-pin PWM cooling fans
------	--

Power Supply

1620W high-efficiency redundant power supply w/ PMBus

AC Input	■ 1000W Output @ 100-120V, 12-10A, 50-60Hz ■ 1200W Output @ 120-140V, 12-10A, 50-60Hz ■ 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	■ 1000W: +12V/84A; +5Vsb/4A ■ 1200W: +12V/100A; +5Vsb/4A ■ 1620W: +12V/150A; +5Vsb/4A

Certification



Platinum Certified
[[Test Report](#)]

PC Health Monitoring

CPU	■ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. ■ 6-Phase-switching voltage regulator w ith auto-sense from 0.8375V-1.60V
FAN	■ Cooling zone
Temperature	■ Monitoring for CPU and chassis environment

Operating Environment / Compliance

RoHS	■ RoHS Compliant
Environmental Spec.	■ 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)

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9SRD-F	8	Super X9SRD-F Motherboard
	CSE-938H-R1620B	1	3U Chassis
Air Shroud	MCP-310-93801-0B	1	Mylar air shroud portion-1 for SC938, X9SCD
Add-On Card	AOC-CGP-I2-O-P	8	AOC-CGP-I2-O-P
Backplane	BPN-SAS-938H	1	Backplane for SC938, 16x 3.5" SAS/SATA
Cable 1	CBL-0218L	1	11.5CM KVM/SUVI 36 PIN TO 9 PIN/15 PIN 2USB, 30/28AWG
Riser Card	RSC-RR1U-E8-O-P	8	RSC-RR1U-E8 (Rev 3.10)
Heatsink / Retention	SNK-P0047PS+	8	Customized Passive CPU Heat Sink for Micro Cloud Series Servers
Power Supply	PWS-1K62P-1R	2	1620W REDUNDANT POWER MODULE
Manual	n/a	1	3U Super MicroCloud System

Optional Parts List			
	Part Number	Qty	Description
MicroLP Card	AOC-CTG-i1S	-	- 10 Gigabit Ethernet Adapter
	AOC-CTG-i2S	-	- Dual-port 10 Gigabit Ethernet Adapter
	AOC-CIBF-M1	-	- InfiniBand FDR Adapter
HDD Converter	MCP-220-93801-0B	-	Black Hot-sw ap 3.5" to 2.5" HDD Tray (SC747, 936, 938 & Blade)