

SuperServer 5038MR-H8TRF



Views: | [Angled View](#) | [Node View](#) | [Front View](#) | [Rear View](#) |



Key Features (per node)

- Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 & E5-1600 v4†/ v3* family
- 2x 3.5" Hot-swap SATA3/SAS drive bays by default; or 2x 2.5" SATA3 HDD Bays w/ optional kits (SAS requires RAID/HBA AOC)
- 1x PCI-E 3.0 x8 and 1x Micro-LP
- Up to **512GB†** ECC 3DS LRDIMM , up to DDR4- **2400†**MHz ; 4x DIMM slots
- 2x GbE LAN ports via Intel® i350
- 1x Dedicated LAN for IPMI Remote Management
- 4x 8cm heavy duty hot-swap fans with optimal cooling zone (per system)
- 1620W Redundant power supplies **Platinum Level Certified** (per system)

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Manuals](#) [OS Certification Matrix](#) [Drive Options](#)

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

Specifications ^

Product SKUs

SuperServer SYS-5038MR-H8TRF (**Black**)

Motherboard

Super X10SRD-F

Processor

CPU Intel® Xeon® processor E5-2600 v4†/ v3, E5-1600 v4†* / v3* family (up to 145W TDP)
Single Socket R3 (LGA 2011)

Core / Cache Up to **22 Cores†** / Up to **55MB†** Cache

Note † BIOS version 2.0 or above is required

Note * Ambient temperature should be no higher than 25°C

System Memory

Memory Capacity 4x 288-pin DDR4 DIMM slots
Up to 512GB ECC 3DS LRDIMM
Up to 256GB ECC LRDIMM
Up to 128GB ECC RDIMM

Memory Type **2400†** / 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs

DIMM Sizes 3DS LRDIMM: 128GB
LRDIMM: 64GB, 32GB
RDIMM: 32GB, 16GB, 8GB, 4GB

Memory Voltage 1.2 V

Error Detection Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices (per node)

Chipset Intel® C612 chipset

SATA 1x SATA DOM
SATA 3.0 (6Gbps) with RAID 0, 1

IPMI Support for Intelligent Platform Management Interface v.2.0
IPMI 2.0 with virtual media over LAN and KVM over LAN support
Aspeed AST2400 BMC

Headers 1x USB Type A 3.0, TPM ready

Graphics Aspeed AST2400 BMC

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
[MicroLP Adapter Matrix](#) (Networking options)

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 (with KVM dongle) ports

System BIOS

BIOS Type 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features Plug and Play (PnP)
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

Chassis

Form Factor 3U

Model **CSE-938BH-R1620B**

Dimensions

Height 5.21" (132.5 mm)

Width 17.26" (438.4 mm)

Depth 23.2" (589 mm)

Package 11.65" (H) x 26.26" (W) x 34" (D)

Weight Net Weight: 62.2 lbs (28.21 kg)
Gross Weight: 88 lbs (39.92 kg)

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
1x Micro-LP for Dual GbE (pre-installed), 10GbE or IB AOC option; [MicroLP Adapter Matrix](#) (Networking options)

Drive Bays (per node)

Hot-swap 2x 3.5" hot-swap SATA3 (6Gbps) HDDs per node (or 2x 2.5" SATA3 with optional kits); up to 16 HDDs total
Enterprise SATA HDD only recommended

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 with 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-X10SRD-F	8	Super X10SRD-F Motherboard
	CSE-938BH-R1620B	1	3U Chassis
Add-on Card / Module	AOC-CGP-I2-P	8	AOC-CGP-I2-O-P
Air Shroud	MCP-310-93803-0B	8	Mylar air shroud portion-1 for SC938, X9SRD
Backplane	BPN-SAS-938H	1	16-port 3U (CSE-938) MicroCloud 6Gbps backplane, support up to 16x 3.5-inch SAS/SATA HDD
Cable 1	CBL-0218L	1	USB/KVM/SUVI,36 PIN TO 9 PIN/15 PIN/2 USB CH,11.5CM,30/28AWG
Cable 2	CBL-PWCD-0578	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Riser Card	RSC-RR1U-E8	8	RSC-RR1U-E8
Heatsink / Retention	SNK-P0047PS	8	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K62P-1R	2	1620W REDUNDANT POWER MODULE

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-SAST-0616	-	For AOC-S3008L-L8i/AOC-SAS3-9361-4I
	CBL-0118L-03	-	For AOC-S2308L-L8i
	CBL-0476L	-	For AOC-SAS2LP-H8IR
Storage Controller Card(s)	AOC-S3008L-L8i	-	Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/10
	AOC-SAS3-9361-4I	-	Std LP, 4 ports, 12Gb/s Gen3, RAID 0/1/5/6/10/50/60
	AOC-S2308L-L8i	-	Std LP, 8 ports, 6Gb/s Gen3, RAID 0/1/10
	AOC-SAS2LP-H8IR	-	Std LP, 8 ports, 6Gb/s Gen3, RAID 0/1/5/6/10/50/60
Network Card(s)	AOC-CTGS-i2T	-	MicroLP, 2x 10GbE Base-T, PCI-E 3.0 x4, Intel® X550
	AOC-CTG-i1S	-	MicroLP, 1 x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN
	AOC-CTG-i2S	-	MicroLP, 2 x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN
	AOC-C25G-m1S	-	MicroLP, 1x 25GbE SFP28 port, Mellanox® ConnectX-4 Lx EN
	AOC-CIBF-m1	-	MicroLP, 1x QSFP PCI-E 3.0 x8, Mellanox® ConnectX-3 FDR
	AOC-CIBQ-m1	-	MicroLP, 1x QSFP PCI-E 3.0 x8, Mellanox® ConnectX-3 QDR
	AOC-S40G-i2Q	-	Standard LP 2-port 40GbE controller, Intel Fortville XL710
	AOC-SGP-i2	-	Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350AM2
	AOC-SGP-i4	-	Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350
	AOC-STG-i2	-	Standard LP, 2x 10GbE CX4, PCI-E x8, Intel 82598EB
	AOC-STG-i2T	-	Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X540
	AOC-STGN-i1S	-	Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel 82599EN
	AOC-STGN-i2S	-	Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
	Drive Tray(s)	MCP-220-93801-0B	-
Drive Tray(s)	MCP-220-00158-0B	-	Black gen 6.5 hot-swap 3.5-to-2.5 Tool-less drive tray
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

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