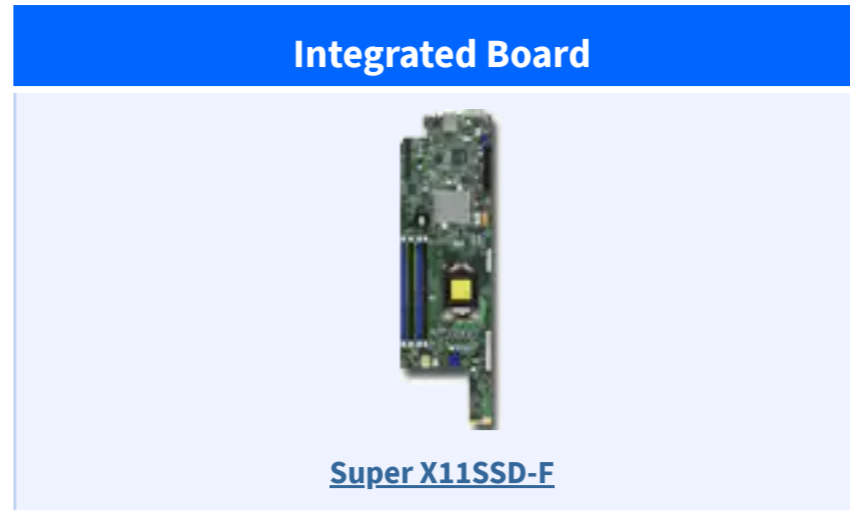


SuperServer 5039MS-H8TRF



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



Key Features (per node)

- Cloud Computing**
 - Web Cache**
 - Web Hosting, VM**
 - Social Networking**
1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen. Core™ i3 series, Intel® Celeron® and Intel® Pentium®
 2. 2x 3.5" SATA3 by default; 2x 2.5" SATA3 HDDs w/ Optional kits
 3. Up to 64GB ECC UDIMM DDR4-2400MHz in 4 sockets
 4. 2 GbE LAN ports via Intel i350, 1 dedicated IPMI LAN port
 5. 1 PCI-E 3.0 x8 and 1 Micro-LP
 6. 2 USB 2.0, 1 VGA, 1 COM port, (with KVM dongle)
 7. 1 USB 3.0 (Type A), 1 SATA DOM
 8. 4 heavy duty hot-swap 8cm fans with optimal cooling zone (per system)
 9. 1600W Redundant power supplies **Titanium 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-5039MS-H8TRF (Black)
Motherboard	
Super X11SSD-F	
Processor/Cache	
CPU	Single Socket H4 (LGA 1151) supports: Intel® Xeon® processor E3-1200 v6/v5, Intel® 7th/6th Gen Core™ i3, Intel® Pentium®, Intel® Celeron® processors CPU TDP up to 80W
Note	BIOS version 2.0 or above is required to support Intel® Xeon® Processor E3-1200 v6 series or 7th Generation Intel® Core™ Processors
System Memory (per node)	
Memory Capacity	4x 288-pin DDR4 DIMM slots Supports up to 64 GB DDR4 ECC Un-Buffered memory (UDIMM)
Memory Type	2400MHz/2133MHz ECC DDR4 SDRAM 72-bit, 288-pin gold-plated UDIMMs
DIMM Sizes	16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
Expansion Slots (per node)	
PCI-Express	1 PCI-E 3.0 x8 Low-profile slot 1 Micro-LP for Dual GbE (pre-installed); 10GbE or IB AOC optional
Network Devices (per node)	
Micro-LP NIC	Intel® i350 GbE controller Dual RJ-45 connectors Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Intel® I/O Acceleration Technology (I/O AT) MicroLP Adapter Matrix (Networking options)
On-Board Devices (per node)	
Chipset	Intel® C236 chipset
SATA	SATA3 (6Gbps) via C236 controller
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 Type A USB 3.0
Graphics	ASPEED AST2400 Graphics (BMC with Graphic controller)
Input / Output (per node)	
SATA	2 SATA3 (6Gbps) ports
LAN	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
DOM	SATA DOM (Disk on Module) power connector support
KVM	1 VGA, 1 COM and 2 USB 2.0 (with KVM dongle)
System BIOS	
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	DMI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3
Rear Window (each node)	
Switch	Power / UID

Chassis	
Form Factor	3U
Model	CSE-938BH-R1K68B
Dimensions and Weight	
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
Drive Bays (per node)	
Internal	2 Hot-swap 3.5" 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	4 Heavy duty 8cm fans with optimal cooling zone
Power Supply (76mm Width)	
1600W 1U Redundant Power Supplies with PMBus	
Total Output Power	800W: 100 – 140Vac 1600W: 180 – 240Vac
Dimension (W x H x L)	76 x 40.4 x 336 mm
Input	100-140Vac / 10-7A / 50-60Hz 180-240Vac / 11-8A / 50-60Hz
+12V	Max: 67A / Min: 0A (100-140Vac) Max: 133A / Min: 0A (180-240Vac)
+5Vsb	Max: 1A / Min: 0A
Output Type	27 Pairs Gold Finger Connector
Certification	[Test Report]
PC Health Monitoring	
CPU	Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 3-Phase-switching voltage regulator with auto-sense from 0.5V-2.3V
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-X11SSD-F	8	Super X11SSD-F Motherboard
	CSE-938BH-R1K68B	1	3U Chassis
Add-on Card / Module	AOC-CGP-I2-P	8	AOC-CGP-I2-O-P
Air Shroud	MCP-310-93804-0B	8	938 mylar airshroud for X10SLD-F (X9 compatible),RoHS/REACH,PBF
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	Customized Passive CPU Heat Sink for Micro Cloud Series Servers
Power Supply	PWS-1K68A-1R	2	1U 1600W Redundant Titanium Power Supply 76mm width 27Pair,PBF

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 NOTE: SYS-5039MS-H8TRF is designed to support max 6GB/s Heatsink SNK-P0047PSM is required for AOC HBA card
Network Card(s)	AOC-CTGS-i2T	-	MicroLP, 2x 10GbE Base-T, PCI-E 3.0 x4, Intel® X550
	AOC-CTG-i1S	-	MicroLP, 1x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN
	AOC-CTG-i2S	-	MicroLP, 2x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN
	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	-	Black gen 6 hot-swap 3.5-to-2.5 HDD tray
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	OS4HR3/2/1	-	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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