

SuperServer 5039MC-H8TRF



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



Key Features (per node)

- Cloud Computing**
 - Web Cache**
 - Web Hosting, VM**
 - Social Networking**
 - Corporate-WINS, DNS, Print, Login**
1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E-2100/E-2200, 8th Gen. Intel® Core™ i3 Processors, Intel® Celeron®, Intel® Pentium®
 2. Intel® C246 chipset
 3. Up to 128GB unbuffered ECC, up to DDR4-2666MHz; 4 DIMM slots
 4. 1 PCI-E 3.0 x8 LP slot, 1 Micro-LP slot (MicroLP upgradable)
 5. 2x 3.5" SATA3 drives or 2x 2.5" SATA3 w/ optional kits
 6. **M.2 Interface:** 2 PCI-E 3.0 x4
M.2 Form Factor: 2280, 22110
M.2 Key: M-Key
 7. 2 GbE LAN ports via Intel i350
 8. Aspeed AST2500 graphics
 9. 4x 8cm Heavy duty fans with optimal cooling zone
 10. 2000W Redundant power supplies
Titanium Level Certified (per system)

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Tested M.2 List](#) [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-5039MC-H8TRF (Black)
Motherboard	
Super X11SCD-F	
Processor (per Node)	
CPU	Single Socket H4 (LGA 1151), CPU TDP support up to 95W Support Intel® Xeon® processor E-2100 / E-2200 series, 8th Gen. Intel® Core™ i3 / Pentium® / Celeron® Processors
Cores	8 cores max.
Note	BIOS 1.0b or above is required to support Intel® Xeon® processor E-2200 series
System Memory (per Node)	
Memory Capacity	4 DIMM slots Up to 128GB Unbuffered ECC Up to DDR4-2666MHz
Memory Type	2666/2400/2133MHz ECC DDR4 SDRAM
DIMM Sizes	32GB, 16GB, 8GB, 4GB
On-Board Devices (per node)	
Chipset	Intel® C246 chipset
SATA	SATA3 (6Gbps) via Intel® C246 controller; RAID 0, 1, 5, 10
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM over LAN support ASPEED AST2500 BMC
Network Controllers	Dual LAN with Intel® i350
Graphics	Aspeed AST2500 graphics
Input / Output (per node)	
SATA	2 SATA3 (6Gbps) ports
LAN	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
System BIOS	
BIOS Type	UEFI 128Mb
BIOS Features	ACPI 1.0 / 2.0 / 3.0 / 4.0 APM 1.2 DMI 2.3 Hardware BIOS Virus protection PCI 2.3 Plug and Play (PnP) RTC (Real Time Clock) Wakeup SMBIOS 2.7.1 UEFI 2.3.1 USB Keyboard support
Front Window (each node)	
Switch	Power / UID

Chassis	
Form Factor	3U
Model	CSE-938NH-R2K04BP
Dimensions and Weight	
Height	5.21" (132.5 mm)
Width	17.26" (438.4 mm)
Depth	23.2" (589 mm)
Package	16.1" (H) x 28.35" (W) x 42.36" (D)
Weight	Net Weight: 62.2lbs (28.21kg) Gross Weight: 88lbs (39.92kg)
Color	Black
Expansion Slots (per Node)	
Micro-LP	1 PCI-E 3.0 x8 LP slot 1 Micro-LP slot (MicroLP upgradable)
M.2	M.2 Interface: 2 PCI-E 3.0 x4 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Drive Bays (per node)	
Internal	2x 3.5" SATA3 drives or 2x 2.5" SATA3 w/ optional kits
System Cooling	
Fans	4x 8cm Heavy duty fans with optimal cooling zone
Power Supply (76mm Width)	
2000W Titanium Redundant Power Supplies with PMBus and Reverse Airflow	
Total Output Power	1000W: 100 – 127Vac 1800W: 200 – 220Vac 1980W: 220 – 230Vac 2000W: 230 – 240Vac 2000W: 200 – 240Vac (UL/CUL only)
Dimension (W x H x L)	76 x 40 x 336 mm
Input	1000W: 100-127 Vac / 12.5-9.5 A / 50-60 Hz 1800W: 200-220 Vac / 10-9.5 A / 50-60 Hz 1980W: 220-230 Vac / 10-9.8 A / 50-60 Hz 2000W: 230-240 Vac / 10-9.8 A / 50-60 Hz 2000W: 200-240 Vac / 11.8-9.8 A / 50-60 Hz (UL/cUL only)
+12V	Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166.7A / Min: 0A (230Vac-240Vac) Max: 166.7A / Min: 0A (200-240 Vac) (UL/CUL only)
+5Vsb	Max: 1A / Min: 0A
Output Type	27 Pairs Gold Finger Connector
Certification	Titanium Level [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-X11SCD-F	8	Super X11SCD-F Motherboard
	CSE-938NH-R2K04BP	1	3U Chassis
Add-on Card / Module	AOC-CGP-I2-P	8	AOC-CGP-I2-O-P
Add-on Card / Module	AOM-BPN-938NH-P	1	AOM-BPN-938NH, Backplane module for 8-node Microcloud system, 16xU.2, 2 per node, Dual PSU, Management LAN switch, chassis node ID., HF, RoHS
Add-on Card / Module	AOM-LAN-MC8-P	1	AOM-LAN-MC8, LAN front panel module for 8-node Microcloud system, HF, RoHS
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
Riser Card	RSC-RR1U-E16	8	RSC-RR1U-E16 with PIC-E x16 output
Heatsink / Retention	SNK-P1041V	8	1U Proprietary Passive CPU Heat Sink for 6U 10-blade Microblade Series Servers
* Power Supply	PWS-2K04A-1R	2	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm, HF, RoHS/REACH
* Add-on Card / Module	AOM-PDB-PT938-LSG-P	1	AOM-PDB-PT938-LSG, PDB module for 8-node Microcloud system, HF, RoHS
* Add-on Card / Module	AOM-PDB-PT938-RSG-P	1	AOM-PDB-PT938-RSG, PDB module for 8-node Microcloud system, HF, RoHS
* Cable 3	CBL-0355L	2	ETHERNET, CAT5E, RJ45 W/BOOT, GREEN, UTP, 2FT (60CM), 24AWG
* Cable 4	CBL-0458L	1	20 cm 30 pin to 30 pin Front control cable with tube. 28AWG
* Cable 5	CBL-CDAT-0662	1	CBL, SGPIO, 2X4F TO 2X4F, P2.54, ROUND CABLE, 61.5CM, 28AWG
* FAN 1	FAN-0194L4	4	80x80x38 mm, 13.5K RPM Cooling Fan for 3U8N Microcloud Serie
* Drive Tray(s)	MCP-220-00094-0B	16	Black gen 6.5 hot-swap 3.5 inch HDD Tray
* Control Board	MCP-280-93801-0B	1	Control panel module
* Rail Set	MCP-290-00057-0N	1	Rail set, quick/quick, default for 4U 17.2"; W
* Air Shroud	MCP-310-93805-0B	16	Mylar air shroud for 2-DIMMs (quick install on DIMM latch)

- Notes:
1. Parts with * are inside the chassis
 2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables,....etc.

Optional Parts List			
	Part Number	Qty	Description
Cable	CBL-SAST-0610	-	For AOC-S3008L-L8i/AOC-S3108L-H8IR
Storage Controller Card(s)	AOC-S3008L-L8i	-	Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/10
	AOC-S3108L-H8IR	-	Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/5/6/10/50/60
	AOC-S3108L-H8IR-16DD	-	Std LP, 8 ports, 12Gb/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-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
TPM security module	AOM-TPM-9670V	1	SPI capable TPM 2.0 with Infineon 9670 controller, Vertical form factor
TPM security module	AOM-TPM-9671V	1	SPI capable TPM 1.2 with Infineon 9670 controller, Vertical form factor
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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