

SuperServer 5039MC-H8TRF



Integrated Board



Super X11SCD-F

Views: | [Angled View](#) | [Node View](#) |
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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

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)

Specifications

Product SKUs

SuperServer	SYS-5039MC-H8TRF (Black)
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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 v2.0 - 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
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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 PCIe 3.0 x8 LP slot 1 Micro-LP slot (MicroLP upgradable)
M.2	- M.2 Interface: 2 PCIe 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
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System Cooling

Fans	4x 8cm Heavy duty fans with optimal cooling zone
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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-sw ap 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 AOC-S3108L-H8IR AOC-S3108L-H8IR-16DD	-	Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/10 Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/5/6/10/50/60 Std LP, 8 ports, 12Gb/s Gen3, RAID 0/1/5/6/10/50/60
Network Card(s)	AOC-CTGS-i2T AOC-CTG-i1S AOC-CTG-i2S AOC-C25G-m1S AOC-S40G-i2Q AOC-SGP-i2 AOC-SGP-i4 AOC-STG-i2 AOC-STG-i2T AOC-STGN-i1S AOC-STGN-i2S	-	MicroLP, 2x 10GbE Base-T, PCI-E 3.0 x4, Intel® X550 MicroLP, 1 x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN MicroLP, 2 x 10GbE SFP+, PCI-E 2.0 x8, Intel® 82599EN MicroLP, 1x 25GbE SFP28 port, Mellanox® ConnectX-4 Lx EN Standard LP 2-port 40GbE controller, Intel Fortville XL710 Standard LP, 2x GbE RJ45, PCI-E x4, Intel i350AM2 Standard LP, 4x GbE RJ45, PCI-E x4, Intel i350 Standard LP, 2x 10GbE CX4, PCI-E x8, Intel 82598EB Standard LP, 2x 10GbE RJ45, PCI-E x8, Intel X540 Standard LP, 1x 10GbE SFP+, PCI-E x8, Intel 82599EN Standard LP, 2x 10GbE SFP+, PCI-E x8, Intel 82599ES
Drive Tray(s)	MCP-220-93801-0B	-	Black gen 6 hot-sw ap 3.5-to-2.5 HDD tray
Drive Tray(s)	MCP-220-00158-0B	-	Black gen 6.5 hot-sw ap 3.5-to-2.5 Tool-less drive tray
TPM security module	AOM-TPM-9670V	1	SPI capable TPM 2.0 w ith Infineon 9670 controller, Vertical form factor
TPM security module	AOM-TPM-9671V	1	SPI capable TPM 1.2 w ith Infineon 9670 controller, Vertical form factor
Global Services & Support	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	QSNBD3/2/1	-	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)