

SuperServer 5039MP-H8TNR

Print



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



Key Features (per node)

Big Data Analytics
Cloud and Virtualization needs
Web Hosting, VM
Social Networking
CDN, Business Hosting

- Single Socket P (LGA 3647) supports 2nd Gen Intel® Xeon® Scalable processor (Cascade Lake/Skylake)*
- 2x 3.5" SATA3 by default; 2x 2.5" hybrid SATA3/NVMe w/ Optional kits
- 4 DIMMs; up to 1TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
- 2 GbE LAN ports via Intel i350
- 1 PCI-E 3.0 x16 (low-profile), 1 Micro-LP, and 2 M.2
- 2 USB 2.0, 1 VGA, 1 COM port, (with KVM dongle)
- 4x 8cm hot-swap cooling fans with fan speed control (per system)
- 2200W Redundant Power Supplies **Titanium Level Certified** (per system)

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

Specifications

Product SKUs		Chassis	
SuperServer	SYS-5039MP-H8TNR (Black)	Form Factor	3U
Motherboard		Model	CSE-938NH-R2K20BP
Super X11SPD-F		Dimensions and Weight	
Processor/Cache (per Node)		Height	5.21" (132 mm)
CPU	Single Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors*	Width	17.26" (438 mm)
Cores	Up to 28 Cores	Depth	23.2" (589 mm)
Note	* Low TCase CPUs may require additional configuration. Please contact Supermicro Sales contact for additional information.	Package	11.65" (H) x 26.26" (W) x 34" (D)
Note	[†] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)	Weight	Net Weight: 62.2 lbs (28.21 kg) Gross Weight: 88 lbs (39.92 kg)
System Memory (per node)		Color	Black
Memory Capacity	4 DIMM slots Up to 1TB 3DS ECC DDR4-2933MHz [†] RDIMM/LRDIMM Supports Intel® Optane™ DCPMM ^{††}	Front Panel	
Memory Type	2933 [†] /2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM	Buttons	Power On/Off button
Note	[†] 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro ^{††} Cascade Lake only. Contact your Supermicro sales rep for more info.	LEDs	Power LED Node status LED
Network Devices (per node)		Expansion Slots (per node)	
Micro-LP NIC	Intel® i350 GbE LAN controller Dual RJ-45 connectors MicroLP Adapter Matrix (Networking options)	PCI-Express	1 PCI-E 3.0 x16 (Low-profile) slot 1 Micro-LP PCI-E 3.0 x8 slot
On-Board Devices (per node)		M.2	M.2 Interface: 2 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2280 M.2 Key: M-Key
Chipset	Intel® C621 chipset	Drive Bays (per node)	
SATA	SATA3 (6Gbps) via C621 controller	Internal	2x 3.5" SATA3 (6Gbps) HDDs per node (or 2x 2.5" Hybrid SATA3/NVMe with optional kits); up to 16 HDDs total Enterprise SATA HDD only recommended
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	System Cooling	
Graphics	ASPEED AST2500 Graphics (BMC with Graphic controller)	Fans	4 Hot-swap 8cm cooling fans fan speed control
Input / Output (per node)		Power Supply	
SATA	2 SATA3 (6Gbps) ports	2200W Redundant Power Supplies with PMBus	
LAN	2 RJ45 Gigabit Ethernet LAN ports	Total Output Power and Input	1200W with Input 100-127Vac 1800W with Input 200-220Vac 1980W with Input 220-230Vac 2090W with Input 230-240Vac 2200W with Input 220-240Vac (for UL/cUL use only) 2090W with Input 230-240Vdc (for CCC only)
KVM	1 VGA, 1 COM and 2 USB 2.0 (with KVM dongle)	AC Input Frequency	50-60Hz
System BIOS		Dimension (W x H x L)	76 x 40 x 336 mm
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS	+12V	Max: 100A / Min: 0A (100-127Vac) Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac) Max: 174.17A / Min: 0A (230-240Vac) Max: 183.3A / Min: 0A (220-240Vac)
BIOS Features	DMI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3	5VSB	Max: 1A / Min: 0A
Management		Output Type	Backplanes (gold finger)
Software	Intel® Node Manager IPMI 2.0 KVM with dedicated LAN SSM , SPM , SUM SuperDoctor® 5 Watchdog	Certification	Titanium Level [Test Report]
Rear Window (each node)		PC Health Monitoring	
Switch	Power / UID	CPU	Monitors for CPU Cores, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset Voltages. 5 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-X11SPD-F	8	Super X11SPD-F Motherboard
	CSE-938NH-R2K20BP	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
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 1	CBL-0218L	1	USB/KVM/SU/1, 36 PIN TO 9 PIN/15 PIN/2 USB CH, 11.5CM, 30/28AWG
Cable 2	CBL-0355L	2	ETHERNET, CAT5E, RJ45 W/BOOT, GREEN, UTP, 2FT (60CM), 24AWG
Cable 3	CBL-0458L	1	20 cm 30 pin to 30 pin Front control cable with tube. 28AWG
Cable 4	CBL-CDAT-0662	1	CBL, SGPIO, 2X4F TO 2X4F, P2.54, ROUND CABLE, 61.5CM, 28AWG
Cable 5	CBL-PWCD-0578	2	PWCD, US, JEC60320 C14 TO C13, 3FT, 14AWG
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
Air Shroud	MCP-310-93805-0B	16	Mylar air shroud for 2-DIMMs (quick install on DIMM latch)
Heatsink	SNK-P0067PS	8	Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-2K20A-1R	2	2200W Redundant, Titanium, 76(W) X 40(H) X 336(L) mm
Riser Card	RSC-RR1U-E16	8	RSC-RR1U-E16 with PIC-E x16 output

Optional Parts List				
	Part Number	Qty	Description	
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	
Intel VROC RAID Key	AOC-VROCINTMOD	1	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)	
	AOC-VROCSTNMOD	1	Intel VROC Standard, RAID 0, 1, 10	
	AOC-VROCPREMOD	1	Intel VROC Premium, RAID 0, 1, 5, 10	
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, 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-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	
	AOC-S100G-m2C	-	Standard LP 2-port 100GbE with 2 QSFP28, Mellanox CX-4 EN	
	AOC-SHF1-I1C	-	Standard LP 1-port Omni Path controller, Intel 100HFA016LS	
	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	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service	
	OSNBD3/2/1	-	3/2/1-year onsite NBD service	
Software	SFT-QOB-LIC ^{• eStore}	1	OOB Management Package (per node license)	
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)	

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