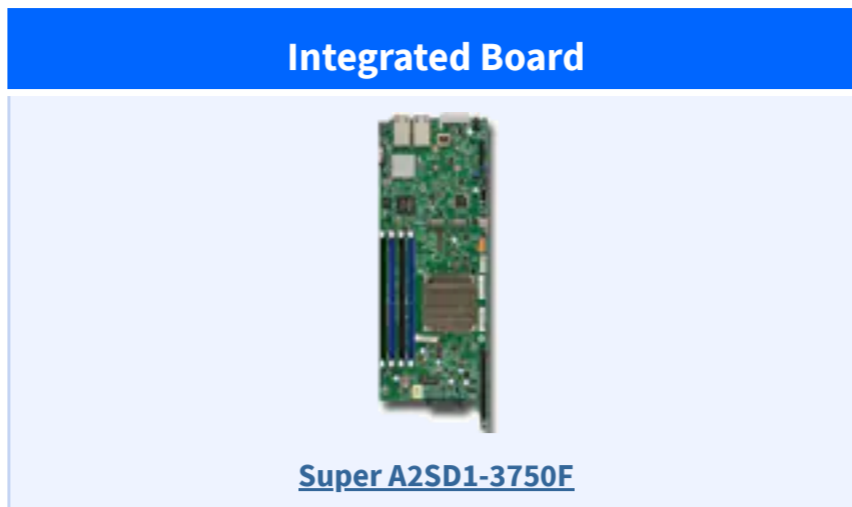


# SuperServer 5039MA8-H12RFT



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 FCBGA1310 supports Intel® Atom® Processor C3750, CPU TDP support 21W
2. 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" NVME + 2x 2.5" SATA3 or 2x 2.5" NVME + 1x 3.5" SATA3
3. Up to 128GB DDR4 VLP ECC RDIMM or 64GB ECC UDIMM, 2400MHz support in 4 slots
4. 2x 10GBase-T LAN ports via C3000 SoC
5. 4 heavy duty 9cm hot-swap fans with optimal cooling zone (per system)
6. 2000W Redundant power supplies **Titanium Level Certified** (per system)

[Drivers & Utilities](#) [BIOS](#) [IPMI](#) [Tested Memory](#) [Tested M.2 List](#) [NVMe Options](#) [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-5039MA8-H12RFT (**Black**)

### Motherboard

**Super A2SD1-3750F**

### Processor/Cache

**CPU** Intel® Atom® Processor C3750  
 Single Socket FCBGA1310 supported, CPU TDP support 21W

**Cores / Cache** 8 cores, 8 threads / 16MB cache

### System Memory (per node)

**Memory Capacity** 4x 288-pin DDR4 DIMM slots  
 Up to 128GB DDR4 VLP Registered ECC memory (RDIMM) in 4 DIMM slots  
 Up to 64GB DDR4 VLP ECC Un-Buffered memory (UDIMM) in 4 DIMM slots

**Memory Type** 2400MHz/2133MHz ECC DDR4 (VLP) SDRAM 72-bit, 288-pin gold-plated UDIMMs

**DIMM Sizes** 8GB, 16GB, 32GB

**Memory Voltage** 1.2V, 1.35V

### On-Board Devices (per node)

**Chipset** Intel® C3000 chipset

**SATA** SATA3 (6Gbps) via SoC

**Graphics** ASPEED AST2400 BMC

### Input / Output (per node)

**SATA** 4 SATA3 (6Gbps) ports

**LAN** 2 RJ45 10GBase-T ports

**Video** 1 VGA port

### System BIOS

**BIOS Type** 128Mb SPI Flash EEPROM with AMI BIOS

### Front Window (each node)

**Switch** Power / UID

### Chassis

**Form Factor** 3U

**Model** CSE-939HE-R2K04BP

### Dimensions and Weight

**Height** 5.21" (132.5 mm)

**Width** 17.5" (444.5 mm)

**Depth** 29.5" (749.3 mm)

**Package** 16.1" (H) x 28.35" (W) x 42.36" (D)

**Weight** Net Weight: 95lbs (43.09kg)  
 Net Weight w/ 2.5" HDDs: 115lbs (52.16kg)  
 Net Weight w/ 3.5" HDDs: 132lbs (59.87kg)  
 Gross Weight: 125lbs (56.70kg)

**Color** Black

### Drive Bays (per node)

**Internal** 2x 3.5" SATA3 OR 4x 2.5" SATA3 HDDs OR 2x 2.5" NVMe + 2x 3.5" SATA3 OR 2x 2.5" NVMe + 1x 3.5" SATA3; up to 48x 2.5" drives total  
 Enterprise SATA HDD only recommended

### System Cooling

**Fans** 4 Heavy duty 9cm 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

**Voltage** +1.8V, +12V, +3.3V, +5V, +5V standby, HT, Memory, VBAT

**Temperature** CPU thermal trip support

**Other Features** RoHS, UID

### 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
<b>Motherboard / Chassis</b>	MBD-A2SD1-3750F	12	Super A2SD1-3750F Motherboard
	CSE-939HE-R2K04BP	1	3U Chassis
<b>Add-on Card / Module</b>	AOM-BPN-MC12S-P	12	AOM-BPN-MC12S
<b>Add-on Card / Module</b>	AOM-GEM-001-P	1	[NR]AOM-GEM-001-O-P
<b>Add-on Card / Module</b>	AOM-LAN-MC12S-P	1	[NR]AOM-LAN-MC12S-P
<b>Add-on Card / Module</b>	AOM-PDB-MC12S-P	12	AOM-PDB-MC12S
<b>Backplane</b>	BPN-SAS-939HS	1	12-port 3U (CSE-939HS) 12-node MicroCloud hot swappable midplane
<b>Cable 1</b>	CBL-0218L	1	USB/KVM/SUVI,36 PIN TO 9 PIN/15 PIN/2 USB CH,11.5CM,30/28AWG
<b>Cable 2</b>	CBL-PWCD-0578	2	PWCD,US,IEC60320 C14 TO C13,3FT,14AWG
<b>Power Supply</b>	PWS-2K04F-1R	2	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, 360x76x40 mm,HF,RoHS/REACH

### Optional Parts List

	Part Number	Qty	Description
<b>Global Services &amp; Support</b>	<a href="#">QS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	<a href="#">SFT-OOB-LIC</a> • eStore	1	OOB Management Package (per node license)
<b>Software</b>	<a href="#">SFT-DCMS-Single</a>	1	DataCenter Management Package (per node license)

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