

SuperServer 5039MA16-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 C3955, CPU TDP support 32W
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-5039MA16-H12RFT (Black)

Motherboard

Super A2SD1-3955F

Processor/Cache

CPU Intel® Atom® Processor C3955
 Single Socket FCBGA1310 supported, CPU TDP support 32W

Cores / Cache 16 cores, 16 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
Motherboard / Chassis	MBD-A2SD1-3955F	12	Super A2SD1-3955F Motherboard
	CSE-939HE-R2K04BP	1	3U Chassis
Add-on Card / Module	AOM-BPN-MC12S-P	12	AOM-BPN-MC12S
Add-on Card / Module	AOM-GEM-001-P	1	[NR]AOM-GEM-001-O-P
Add-on Card / Module	AOM-LAN-MC12S-P	1	[NR]AOM-LAN-MC12S-P
Add-on Card / Module	AOM-PDB-MC12S-P	12	AOM-PDB-MC12S
Backplane	BPN-SAS-939HS	1	12-port 3U (CSE-939HS) 12-node MicroCloud hot swappable midplane
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
Power Supply	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
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)

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