

SuperServer 5038MD-H24TRF (Complete System Only)



Key Features (2 Nodes per Tray, Each Node:)

- Cloud Computing
- Web Cache, CDN
- Web Hosting
- Application delivery

1. Single socket FCBGA 1667, 6-Core, 45W, 12 Threads; support Intel® Xeon® processor D-1531
2. 2x 2.5 SATA3 (6Gbps) HDDs or 4x 2.5" Slim SSD with Optional kit
3. 4x 288-pin DDR4 DIMM slots; up to 128GB ECC VLP RDIMM / 64GB ECC VLP UDIMM; 4 DIMM slots
4. 2 GbE LAN (Intel i350), 1 shared LAN for IPMI Remote Management
5. 2 USB 2.0, 1 VGA, 1 COM port (with KVM dongle)
6. 4x 9cm heavy duty fans with optimal cooling zone
7. 1600W Redundant power supplies Platinum Level Certified

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)
[▶ Drive Options](#)

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

Specifications

Product SKUs

SuperServer ■ SYS-5038MD-H24TRF (Black)

Motherboard

Motherboard ■ [MBD-X10SDE-DF](#)

Processor/Cache

CPU ■ Intel® Xeon® processor D-1531
 ■ Socket FCBGA 1667
 ■ CPU TDP support 45W, 2.2-2.6GHz, 12MB

Cache ■ 9M Cache, 2.20 GHz

System Memory (per node)

Memory Capacity ■ 4x DDR4 DIMM sockets
 ■ Up to 128GB DDR4 VLP ECC RDIMM
 ■ Up to 64GB DDR4 VLP ECC/non-ECC UDIMM

Memory Type ■ 2133/2400MHz VLP ECC DDR4 RDIMM and VLP ECC/Non-ECC UDIMM

DIMM Sizes ■ 32GB, 16GB, 8GB, 4GB

Chassis

Form Factor ■ 3U

Model ■ CSE-939HX-R1K63B

Dimensions and Weight

Height ■ 5.21" (132 mm)

Width ■ 17.26" (438 mm)

Depth ■ 29.5" (749 mm)

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

Weight ■ Net Weight: 90 lbs (40.82 kg)
 ■ Gross Weight: 120 lbs (54.4 kg)

Color ■ Black

Front Panel


Buttons ■ Power On/Off button

LEDs ■ Power LED
 ■ Node status LED

Drive Bays (per node)

■ 2x 2.5" internal SATA3 (6Gbps) HDDs per

Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices (per node)	
Chipset	<ul style="list-style-type: none"> System on Chip (SoC)
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) via SoC
Network Controllers	<ul style="list-style-type: none"> Dual LAN via Intel® i350 Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM over LAN support ASPEED AST2400 BMC
Headers	<ul style="list-style-type: none"> 1 Type A USB 3.0
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 Graphics (BMC with Graphic controller)
Input / Output (per node)	
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports 1 LAN shared for IPMI Remote Management
USB	<ul style="list-style-type: none"> 2 USB 2.0 via KVM
KVM	<ul style="list-style-type: none"> 1 VGA, 1 COM and 2 USB 2.0 (with KVM dongle) ports
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 RTC (Real Time Clock) Wakeup
Rear Window (each node)	
Switch	<ul style="list-style-type: none"> Power / UID

Internal	<ul style="list-style-type: none"> node or 4x 2.5" Slim SSD with Optional kit Enterprise SATA HDD only recommended
System Cooling	
Fans	<ul style="list-style-type: none"> 4x 9cm Heavy duty fans with optimal cooling zone
Power Supply	
1620W high-efficiency redundant power supply w/ PMBus	
AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-120V, 12-10A, 50-60Hz 1200W Output @ 120-140V, 12-10A, 50-60Hz 1620W Output @ 180-240V, 10.5-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/84A; +5Vsb/4A 1200W: +12V/100A; +5Vsb/4A 1620W: +12V/135A; +5Vsb/4A
Certification	 Platinum Level [Test Report]

PC Health Monitoring	
CPU	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Cooling zone
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment
Operating Environment / Compliance	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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 - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SDE-DF	8	Super X10SDE-DF Motherboard
	CSE-939HX-R1K63B	1	3U Chassis
Add-on Card / Module	AOM-PDB-MC24	12	AOM-PDB-MC24
Add-on Card / Module	AOM-BPN-MC24	12	AOM-BPN-MC24
Backplane	BPN-SAS-939H	1	12-port 3U (CSE-939) 12-node MicroCloud hot swappable midplane
Cable 1	CBL-0218L	1	11.5CM KVM/SUVI 36 PIN TO 9 PIN/15 PIN 2USB, 30/28AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Power Supply	PWS-1K63S-1R	2	1600W redundant platinum power supply

Optional Parts List			
	Part Number	Qty	Description
Drive Tray(s)	MCP-220-93906-0N	-	HDD conversion plate to support 4 x 2.5" HDD per node
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	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)