

SuperServer 5038MA-H24TRF (Complete System Only)



CDN, Cloud Computing, Hosting & Application Delivery, Web Cache, Web Server

Key Features

1. Dual Intel® Atom processor C2750, SoC, FCBGA 1283, 20W 8-Core
2. 2x 2.5" SATA3 (6Gb/s) HDDs per node
3. Up to 64GB DDR3 VLP ECC UDIMM 1600MHz support in 4 sockets
4. 2x GbE LAN (Intel i354), 1x Shared LAN for IPMI Remote Management
5. Share 1x VGA, 1x COM ports, 2x USB 2.0 (with KVM dongle)
6. 4x 9cm Heavy duty fans with optimal cooling zone
7. 1600W Redundant Platinum Level Digital power supplies

Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

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-5038MA-H24TRF (Black)

Motherboard

Motherboard ■ MBD-A1SA2-2750F

Processor/Cache

CPU ■ Dual FCBGA 1283
 ■ Intel® Atom™ Processor C2750
 ■ CPU TDP 20W (8-Core)
 ■ System-on-Chip

System Memory

Memory Capacity ■ 4x 240-pin DDR3 DIMM slot
 ■ Supports up to 64GB DDR3 VLP ECC UDIMM memory

Memory Type ■ 1600/1333MHz ECC DDR3 SDRAM, 240-pin gold-plated DIMMs

DIMM Sizes ■ 16GB, 8GB, 4GB, 2GB

Memory Voltage ■ 1.5 V, 1.35 V

On-Board Devices

Chassis

Form Factor ■ 3U
 Model ■ CSE-939HA-R1K63B

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: 90 lbs (40.82 kg)
 ■ Net Weight w/ 2.5" HDDs: 110 lbs (49.90 kg)
 ■ Gross Weight: 120 lbs (54.43 kg)


Color ■ Black

Drive Bays

Internal ■ 4x 2.5" fixed HDD bays (up to 48x 2.5" HDDs total)
 ■ 2x 2.5" fixed peripheral bays
 ■ Enterprise SATA HDD and SSD only recommended

System Cooling

Chipset	<ul style="list-style-type: none"> Avoton SOC
SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps)
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
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 Graphics (BMC with Graphic controller)
Network Devices	
Onboard NIC	<ul style="list-style-type: none"> SoC i354 GbE controller per node Dual RJ-45 connectors Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 2.0 ports
VGA	<ul style="list-style-type: none"> 1x VGA port
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"> DMI 2.3 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3
Front Window	
Switch	<ul style="list-style-type: none"> Power Button Node Switch

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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-A1SA2-2750F	12	Super A1SA2-2750F Motherboard
	CSE-939HA-R1K63B	1	3U Chassis
Add-on Card / Module	AOM-BPN-MC24A	12	MicroCloud Avoton 24 nodes - Node BPN board (4x HDD)
Add-on Card / Module	AOM-PDB-MC24	12	AOM-PDB-MC24
Backplane	BPN-SAS-939H	1	CSE939 MicroCloud (12 node) hotswap backplane
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
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	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)