

SuperServer 5038ML-H24TRF (Complete System Only)



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.

Key Features (per sled)

1. Intel® Xeon® processor E3-1200 v3/v4 family, Intel® 4th/5th Gen Core™ processor family; Socket H3 (LGA 1150) up to 80W
2. 2x 2.5" SATA3 (6Gb/s) HDDs or 4x 2.5" Slim SSD with Optional kit
3. Up to 32GB DDR3 VLP ECC UDIMM 1600MHz support in 4 sockets
4. 4x GbE LAN (Intel i350), 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. 2000W Redundant Platinum Level Digital power supplies



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-5038ML-H24TRF (Black)
Motherboard	
Motherboard	▪ MBD-X10SLE-DF
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Intel® Xeon® processor E3-1200 v3/v4 family, Intel® 4th/5th Gen Core™ processor family ▪ Up to 80W ▪ Socket H3 (LGA 1150)
System Memory (per sled)	
Memory Capacity	<ul style="list-style-type: none"> ▪ 4x 240-pin DDR3 DIMM slots ▪ Supports up to 32 GB DDR3 VLP ECC
Memory Type	▪ 1333/1600MHz*** ECC DDR3 (VLP) SDRAM 72-bit, 240-pin gold-plated UDIMMs
DIMM Sizes	▪ 8GB, 4GB, 2GB, 1GB
Memory Voltage	▪ 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> ▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

Chassis	
Form Factor	▪ 3U
Model	▪ CSE-939HD-R2K02B
Dimensions and Weight	
Height	▪ 5.21" (132.5 mm)
Width	▪ 17.5" (444.5 mm)
Depth	▪ 31.15" (791.2 mm)
Packing	▪ 720mm (W) x 409mm (H) x 1076mm (L)
Package	▪ 16.1" (H) x 28.35" (W) x 42.36" (D)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 95.0 lbs (43.09 kg) ▪ Net Weight w/ 2.5" HDDs: 115 lbs (52.16 kg) ▪ Gross Weight: 125 lbs (56.70 kg)
Color	▪ Black
Drive Bays (per sled)	
Internal	<ul style="list-style-type: none"> ▪ 2x 2.5" SATA3 HDDs per sled; up to 24x 2.5" HDDs total OR 4x 2.5" Slim SSDs per sled; up to 48x 2.5" SSDs total ▪ Enterprise SATA HDD and SSD only recommended

On-Board Devices (per sled)	
Chipset	<ul style="list-style-type: none"> Intel® C224 PCH chipset
SATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps); 2x per node w/ RAID 0, 1
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 (per sled)	
Onboard NIC	<ul style="list-style-type: none"> Intel® i350 GbE controller Quad RJ-45 connectors (Dual RJ-45 per node) Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output Intel® I/O Acceleration Technology (I/O AT)
Input / Output (per sled)	
Serial ATA	<ul style="list-style-type: none"> 4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Shared 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 (per sled)	
Switch	<ul style="list-style-type: none"> Power Button Node Switch

System Cooling	
Fans	<ul style="list-style-type: none"> 4x 9cm Heavy duty fans with optimal cooling zone
Power Supply	
2000W redundant digital power supplies w/ PMBus	
AC Input	<ul style="list-style-type: none"> 100-120Vac: +12V/91.7A; +5Vsb/4A 120-140Vac: +12V/116.7A; +5Vsb/4A 200-220Vac: +12V/150A; +5Vsb/4A 220-230Vac: +12V/165A; +5Vsb/4A 230-240Vac: +12V/166.7A; +5Vsb/4A
Total Output Power	<ul style="list-style-type: none"> 1100W/1400W/1800W/1980W/2000W
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

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SLE-DF	12	Super X10SLE-DF Motherboard
	CSE-939HD-R2K02B	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	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
Manual	MNL-1540-QRG	1	5038ML-H24TRF Quick Reference Guide,PBF
Heatsink / Retention	SNK-P0047PSR	24	LP CPU Heat Sink for 12-node Micro Cloud Series Servers
Power Supply	PWS-2K02F-1R	2	2000W redundant platinum power,HF,RoHS/REACH,PBF
Mounting Rail	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
HDD Kit	MCP-220-93906-0N	-	SC939HD HDD mounting kit (drive plate, screws, cables) One (1) kit per sled
Power Supply	PWS-2K02F-1R	-	2000W platinum power supply (in case of power supply fail)
Onsite Service Program	<u>OS4HR3/2/1</u>	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	<u>OSNBD3/2/1</u>	-	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)