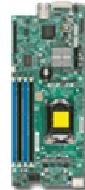


SuperServer 5037MC-H12TRF

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Integrated Board



Super X9SCE-F

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested MEM](#) ▶ [Tested HDD](#) ▶ [Manuals](#)
 ▶ [OS Certification Matrix](#)

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-5037MC-H12TRF (Black) |
|-------------|-----------------------------|

Motherboard

| | |
|-------------|------------------|
| Motherboard | ▪ MBD-X9SCE-F ** |
|-------------|------------------|

Processor/Cache

| | |
|-----|---|
| CPU | ▪ Intel® Xeon® processor E3-1200 v2 series, Intel® 2nd Gen. Core i3 & Intel® Pentium® family processors*** ▪ Up to 69W ▪ Socket H2 (LGA 1155) |
|-----|---|

System Memory (per node)

| | |
|-----------------|--|
| Memory Capacity | ▪ 4x 240-pin DDR3 DIMM sockets ▪ Supports up to 32 GB DDR3 VLP ECC Un-Buffered memory (UDIMM) |
| 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 |
| Error Detection | ▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory) |

On-Board Devices (per node)

| | |
|-----------|---|
| Chipset | ▪ Intel® C204 PCH chipset* |
| SATA | ▪ 1x SATA DOM |
| IPMI | ▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM over LAN support ▪ Nuvoton WPCM450 BMC |
| Graphics | ▪ Matrox G200eW 16MB DDR2 |
| Super I/O | ▪ Nuvoton WPCM450RA0BX |

Network Devices (per node)

| | |
|--------------|--|
| Micro-LP NIC | ▪ Intel® i350 GbE controller ▪ Dual RJ-45 connectors ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ Intel® I/O Acceleration Technology (I/O AT) |
|--------------|--|

Chassis

| | |
|-------------|-------------------|
| Form Factor | ▪ 3U |
| Model | ▪ CSE-939H-R1K63B |

Dimensions

| | |
|--------|--|
| Height | ▪ 5.21" (132.5 mm) |
| Width | ▪ 17.5" (444.5 mm) |
| Depth | ▪ 29.5" (749.3 mm) |
| Weight | ▪ 95.0 lbs (43.09 kg) - barebone ▪ 115.0 lbs (52.16 kg) - with 2.5" HDDs ▪ 132.0 lbs (59.87 kg) - with 3.5" HDDs |
| Color | ▪ Black |

Drive Bays (per node)

| | |
|----------|---|
| Internal | ▪ 2x 3.5" SATA3 HDDs per node; up to 24x 3.5" HDDs total OR 4x 2.5" SATA (2x SATA3 + 2x SATA2) HDDs per node; up to 48x 2.5" HDDs total ▪ Enterprise SATA HDD only recommended |
|----------|---|

System Cooling

| | |
|------|--|
| Fans | ▪ 4x 9cm Heavy duty fans with optimal cooling zone |
|------|--|

Power Supply

| | |
|---|---|
| 1620W high-efficiency redundant power supply w/ PMBus | |
| AC Input | ▪ 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 | ▪ 1000W: +12V/84A; +5Vsb/4A ▪ 1200W: +12V/100A; +5Vsb/4A ▪ 1620W: +12V/135A; +5Vsb/4A |

Certification



Platinum Level
(Cert. in progress)

PC Health Monitoring

| | |
|-----|--|
| CPU | ▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +12V, +3.3V Standby, +5V Standby, VBAT, Memory, Chipset |
|-----|--|

Input / Output (per node)

| | |
|-------------------|---|
| Serial ATA | <ul style="list-style-type: none"> 2 SATA3 (6Gbps), 2 SATA2 ports (3Gbps) |
| LAN | <ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port |
| KVM | <ul style="list-style-type: none"> 1 VGA, 1 COM, and 2 USB 2.0 ports |

System BIOS

| | |
|----------------------|--|
| BIOS Type | <ul style="list-style-type: none"> 64Mb 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 |

Front Window (each node)

| | |
|---------------|---|
| Switch | <ul style="list-style-type: none"> Power / UID |
|---------------|---|

Voltages.

- 6-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V

FAN

- Cooling zone

Temperature

- Monitoring for CPU and chassis environment

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-X9SCE-F | 12 | Super X9SCE-F Motherboard |
| | CSE-939H-R1K63B | 1 | 3U Chassis |
| Cable 1 | CBL-0218L | 1 | 11.5CM KVM/SUVI 36 PIN TO 9 PIN/15 PIN 2USB, 30/28AWG |
| Cable 2 | CBL-0487L-01 | 12 | 8Pin to 2SATA Power cable 12cm and 58cm. 18AWG |
| Cable 3 | CBL-0488L | 12 | 55cm SATA cable S-RA 30AWG |
| Cable 4 | CBL-0489L | 12 | 70cm SATA cable S-RA 30AWG |
| Cable 5 | CBL-0493L | 12 | 46cm 12 pin to 12 pin control cable for MicroCloud 28AWG |
| Heatsink / Retention | SNK-P0047PSR | 12 | LP CPU Heat Sink for 12-node Micro Cloud Series Servers |
| Backplane | BPB-SAS-939H | 1 | CSE939 MicroCloud (12 node) hotswap backplane |
| Micro-LP NIC | AOM-CGP-i2M | 12 | includes riser and bracket (AOC-CGP-i2M) |
| Power Supply | PWS-1K63S-1R | 2 | 1600W REDUNDANT POWER MODULE |

Optional Parts List

| | Part Number | Qty | Description |
|---------------------|------------------|-----|--|
| HDD Kit | MCP-220-93903-0N | - | SC939 2.5" HDD mounting kit (drive plate, mylar, screws) |
| MicroLP Card | AOM-CIBF-M1M | - | - InfiniBand FDR Adapter |
| | AOM-CTG-i1SM | - | - 10GbE SFP+ Adapter |

* Per Intel's spec, for platforms using C202/C204 PCH:

1) Intel i5/i7 CPU are not supported.

2) Intel E3-12x5 series processors which have integrated graphics support are not recommended.

** Supermicro X9SCE-F motherboard is using a dedicated graphic from Matrox G200eW.

*** [BIOS rev. 2.0 or above](#) is needed to support new E3-1200 v2 CPUs, which supports PCI-E 3.0 & DDR3 1600.

Intel Core i3 or Intel Pentium CPU does not support Intel Intelligent Power Node Manager technology.

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