

SuperServer 5019P-MR



Integrated Board



[Super X11SPM-F](#)

Key Features

- **Web Hosting, VM**
- **Compact Network Appliance**

1. Single socket P (LGA 3647) supports Intel® Xeon® Scalable Processors
2. Intel® C621 chipset
3. 4 Hot-swap 3.5" SATA3 bays w/ RAID
4. Up to 768GB ECC 3DS LRDIMM, up to DDR4-2666MHz; 6 DIMM slots
5. 1 PCI-E 3.0 x16 slot (FH, HL)
6. 2x 1GbE with Marvell® 88E1512
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. 1 VGA, 2 COM, 5 USB 3.0, 6 USB 2.0
9. 400W Redundant Platinum Power Supplies w/ BBP® option

- [▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#)
[▶ Tested M.2 List](#) ▶ [OS Certification Matrix](#) ▶ [Quick-References Guide](#) ▶ [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 | |
|------------------------|--|
| SYS-5019P-MR | ▪ SuperServer 5019P-MR (Black) |
| Motherboard | |
| Super X11SPM-F | |
| Processor/Cache | |
| CPU | <ul style="list-style-type: none"> ▪ Single Socket P (LGA 3647) ▪ Intel® Xeon® Scalable Processors ▪ Support CPU TDP 70-165W with IVR |
| Cores | ▪ Up to 28 Cores with Intel® HT Technology |
| System Memory | |
| Memory Capacity | <ul style="list-style-type: none"> ▪ 6 DIMM slots ▪ Up to 768GB ECC 3DS LRDIMM, 192GB ECC RDIMM, DDR4 up to 2666MHz |
| Memory Type | ▪ 2666/2400/2133MHz ECC DDR4 SDRAM |
| On-Board Devices | |
| Chipset | ▪ Intel® C621 chipset |
| SATA | <ul style="list-style-type: none"> ▪ SATA3 (6Gbps) via C621 controller ▪ RAID 0, 1, 5, 10 support |

| Chassis | |
|-------------------------|--|
| Form Factor | ▪ 1U Rackmount |
| Model | ▪ CSE-813MFTQC-R407CB |
| Dimensions and Weight | |
| Height | ▪ 1.7" (43mm) |
| Width | ▪ 17.2" (437mm) |
| Depth | ▪ 19.8" (503mm) |
| Package | ▪ 8.5" (H) x 24" (W) x 29.5" (D) |
| Weight | <ul style="list-style-type: none"> ▪ Gross Weight: 30.4 lbs (13.8 kg) ▪ Net Weight: 17.6 lbs (8 kg) |
| Available Colors | ▪ Black |
| Front Panel | |
| Buttons | <ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button |
| LEDs | <ul style="list-style-type: none"> ▪ Power LED ▪ Hard drive activity LED ▪ Network activity LEDs ▪ System Overheat LED |
| Expansion Slots | |

| | |
|-----------------------------|---|
| Network Controllers | <ul style="list-style-type: none"> Dual Gigabit Ethernet LAN with Marvell® 88E1512 |
| 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 |
| Video | <ul style="list-style-type: none"> ASPEED AST2500 BMC |
| Input / Output | |
| SATA | <ul style="list-style-type: none"> 4 SATA3 (6Gbps) ports |
| LAN | <ul style="list-style-type: none"> 2 RJ45 1GbE LAN ports 1 RJ45 Dedicated IPMI LAN port |
| USB | <ul style="list-style-type: none"> 4 USB 3.0 ports (2 front, 2 rear) 2 USB 2.0 ports (rear) |
| Video | <ul style="list-style-type: none"> 1 VGA port |
| Serial Port / Header | <ul style="list-style-type: none"> 2 COM ports (1 rear, 1 header) |
| SuperDOM | <ul style="list-style-type: none"> 2 <u>SuperDOM</u> (Disk on Module) ports with built-in power |
| System BIOS | |
| BIOS Type | <ul style="list-style-type: none"> AMI UEFI |
| Management | |
| Software | <ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI <u>SPM, SUM</u> <u>SuperDoctor® 5</u> Watch Dog |
| Power Configurations | <ul style="list-style-type: none"> ACPI Power Management |
| PC Health Monitoring | |
| CPU | <ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator |
| FAN | <ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors |
| Temperature | <ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors |

| | |
|---|---|
| PCI-Express | <ul style="list-style-type: none"> 1 PCI-E 3.0 x16 slot (FH, HL) |
| Drive Bays | |
| Hot-swap | <ul style="list-style-type: none"> 4 Hot-swap 3.5" SATA3 drive bays |
| M.2 | <ul style="list-style-type: none"> Interface: PCIe 3.0 x4 Form Factor: 2242, 2280 |
| Peripheral Drives | |
| Optional | <ul style="list-style-type: none"> 1 Slim DVD-ROM drive 1 USB + COM port tray |
| System Cooling | |
| Fans | <ul style="list-style-type: none"> 4x 40x28mm PWM fans; 2x fans for AOC cooling Optional 2 fans for AOC cooling |
| AC/DC240V Input Redundant Power Supplies | |
| 400W 1U Redundant Power Supplies with PMbus | |
| Total Output Power | <ul style="list-style-type: none"> 400W |
| Dimension (W x H x L) | <ul style="list-style-type: none"> 54.5 x 40 x 220 mm |
| Input | <ul style="list-style-type: none"> 100 - 240Vac / 6.0 - 3.0A / 50-60Hz 200 - 240Vdc / 3.4 - 3.2A (CCC Only) |
| +12V | <ul style="list-style-type: none"> Max: 33A / Min: 0.5A |
| +5V sb | <ul style="list-style-type: none"> Max: 3A / Min: 0A |
| Output Type | <ul style="list-style-type: none"> Gold Finger Connector Mating with Molex 45984-4343 |
| Certification |  UL/cUL/CB/CE/BSMI/CCC Platinum Level Certified [Test Report] |
| 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-X11SPM-F | 1 | Super X11SPM-F Motherboard |
| | CSE-813MFTQC-R407CB | 1 | 1U Chassis |
| Backplane | BPN-SAS3-815TQ | 1 | 1U 4-Port 12Gbps Backplane Support 4x3.5" SAS3/SATA3 HDD/SSD |
| Cable 1 | CBL-SAST-0644 | 1 | MINI SAS(RA)-4 SATA(RA),INT,75/75/90/90CM,90CM SB,30AWG |
| Parts | MCP-120-00031-0N | 1 | Riser card bracket for SC812,813,813M,815,111,113,113M |
| Manual | MNL-2008-QRG | 1 | 5019P-M/MR Quick Reference Guide |
| Riser Card | RSC-RR1U-E16 | 1 | RSC-RR1U-E16 with PIC-E x16 output |
| Heatsink / Retention | SNK-P0067PS | 1 | 1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism |
| Power Supply | PWS-407P-1R | 2 | AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH |
| FAN 1 | FAN-0154L4 | 4 | 40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH |