

# SuperServer 5019S-MR



## Integrated Board



Super X11SSH-F

## Key Features

- **HA, Web hosting, File/Print**
- **Mission-Critical, Light load VM**

1. Single socket H4 (LGA 1151) supports Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen. Core™ i3 series
2. Intel® C236 chipset
3. 4x 3.5" Hot-swap SATA3 bays w/ RAID
4. Up to 64GB Unbuffered ECC UDIMM DDR4 2133MHz; 4x DIMM slots
5. 1 PCI-E 3.0 x8 (in x16) AOC slot
6. 2x GbE ports with Intel® i210-AT
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0 (front/rear), USB 2.0
9. 400W Redundant Platinum Power Supplies w/ BBP® option

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

## Specifications

### Product SKUs

- SYS-5019S-MR** ■ SuperServer 5019S-MR (**Black**)

### Motherboard

#### Super X11SSH-F

### Processor/Cache

#### CPU

- Single Socket H4 (LGA 1151) supports:
- Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3
- CPU TDP up to 80W

### System Memory

#### Memory Capacity

- 4x 288-pin DDR4 DIMM slots
- Up to 64GB DDR4 ECC UDIMM

#### Memory Type

- 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs

#### DIMM Sizes

- 16GB, 8GB, 4GB

#### Memory Voltage

- 1.2 V

- Corrects single-bit errors

### Chassis

#### Form Factor

- 1U Rackmount

#### Model

- **CSE-813MFTQC-R407B**

### 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

- Gross Weight: 30.4 lbs (13.8 kg)
- Net Weight: 17.6 lbs (8 kg)

#### Available Colors

- Black

### Front Panel

#### Buttons

- Power On/Off button
- System Reset button

#### LEDs

- Power LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED

### Expansion Slots

<b>Error Detection</b>	<ul style="list-style-type: none"> <li>▪ Detects double-bit errors (using ECC memory)</li> </ul>
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### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>▪ Intel® C236 chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>▪ SATA3 (6Gbps) via C236 controller</li> <li>▪ RAID 0, 1, 5, 10 support</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>▪ Support for Intelligent Platform Management Interface v.2.0</li> <li>▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>▪ ASPEED AST2400 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>▪ Dual Intel® I210-AT Gigabit Ethernet LAN ports</li> <li>▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>▪ ASPEED AST2400 BMC</li> </ul>

### Input / Output

<b>SATA</b>	<ul style="list-style-type: none"> <li>▪ 4x SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>▪ 2x RJ45 Gigabit Ethernet LAN ports</li> <li>▪ 1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>▪ 2x USB 3.0 ports (front/rear)</li> <li>▪ 2x USB 2.0 ports</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>▪ 1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>▪ 2x COM ports (1 rear, 1 header)</li> </ul>
<b>SuperDOM</b>	<ul style="list-style-type: none"> <li>▪ 2x <u>SuperDOM</u> (Disk on Module) ports with built-in power</li> </ul>

### PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>▪ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>▪ Total of 4 fan headers supporting up to 4 fans</li> <li>▪ 4 fans with tachometer status monitoring</li> <li>▪ Status monitor for speed control</li> <li>▪ Status monitor for on/off control</li> <li>▪ Low noise fan speed control</li> <li>▪ Pulse Width Modulated (PWM) fan connectors</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>▪ Monitoring for CPU and chassis environment</li> <li>▪ CPU thermal trip support</li> <li>▪ I<sup>2</sup>C temperature sensing logic</li> <li>▪ Thermal Monitor 2 (TM2) support</li> <li>▪ PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>▪ CPU / System Overheat LED</li> <li>▪ Suspend static indicator LED</li> <li>▪ UID/Remote UID</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>▪ Chassis intrusion detection</li> <li>▪ Chassis intrusion header</li> <li>▪ Chipkill support</li> <li>▪ RoHS, Halogen Free</li> </ul>

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>▪ 1x PCI-E 3.0 x8 (in x16) AOC slot</li> <li>▪ 1x M.2 connector</li> </ul>
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### Drive Bays

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>▪ 4x 3.5" Hot-swap SATA3 drive bays</li> </ul>
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### Peripheral Drives

<b>Optional</b>	<ul style="list-style-type: none"> <li>▪ Optional 2.5" drive adapter</li> <li>▪ Optional slim DVD drive</li> </ul>
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### Backplane

SAS/SATA HDD Backplane (SAS support requires optional SAS controller)
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### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>▪ 4x 40x28mm 4-pin PWM Cooling Fans</li> </ul>
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### Power Supply

400W (1+1) Redundant Platinum level power supply with PMBus and I2C
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<b>AC Input</b>	<ul style="list-style-type: none"> <li>▪ 400W: 100-240 V, 50-60 Hz</li> </ul>
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<b>DC Output +5V standby</b>	<ul style="list-style-type: none"> <li>▪ 3 Amp</li> </ul>
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<b>DC Output +12V</b>	<ul style="list-style-type: none"> <li>▪ 33 Amp</li> </ul>
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<b>Certification</b>	 <b>Platinum Level Certified</b> <a href="#">[ Test Report ]</a>
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### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>▪ 8MB SPI Flash EEPROM with AMI BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>▪ DMI 2.3</li> <li>▪ PCI 2.3</li> <li>▪ ACPI 1.0 / 2.0</li> <li>▪ USB Keyboard support</li> <li>▪ SMBIOS 2.3</li> </ul>

### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>▪ RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>▪ Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>▪ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>▪ Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>▪ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11SSH-F	1	Super X11SSH-F Motherboard
	CSE-813MFTQC-R407B	1	1U Chassis
<b>Air Shroud</b>	MCP-310-19007-0N	1	SC811/SC512L/SC512F/SC813M/SC113M/SC513L-410B/SC513L-420B/SC513F, UP X9SRE/I, X9 Mylar Air Shroud, 12"x9.6" MB
<b>Backplane</b>	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5" SAS/SAS HDD/SSD
<b>Cable 1</b>	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
<b>Cable 2</b>	CBL-CDAT-0661	1	8 pin to 8 pin round SGPIO cable, 40cm, 28AWG, pinout 1-1,RoHS/REACH
<b>Parts</b>	MCP-120-00031-0N	1	Riser card bracket for SC812,813,813M,815,111,113,113M
<b>Drive Tray(s)</b>	MCP-220-00129-0B	1	Black 2x USB3.0/COM port tray in slim FDD bay
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1779-QRG	1	5019S-M/MR,QRG,HF,RoHS/REACH
<b>Riser Card</b>	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
<b>Heatsink / Retention</b>	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
<b>Power Supply</b>	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH