

# SuperServer 5018R-MR



## Integrated Board



[Super X10SRi-F](#)

### Available Colors:

Black



## Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. 4x 3.5" Hot-swap SATA3 drive bays
4. Up to 512GB ECC DDR4 2133MHz LRDIMM; 8x DIMM sockets
5. 1x PCI-E 3.0 x16 slot
6. Intel® i350-AM2 Dual port GbE LAN
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0, 4x USB 2.0
9. 400W (1+1) Redundant Short-depth 80Plus Gold-level 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

**SYS-5018R-MR** ■ SuperServer 5018R-MR (**Black**)

### Motherboard

**Super X10SRi-F**

### Processor

**CPU**

- Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP \*\*)
- Single Socket R3 (LGA 2011)

**Core / Cache**

- Up to 18 Cores / Up to 45MB Cache

**Note**

\*\* Motherboard supports this maximum TDP. Please verify your system can thermally support

### System Memory

**Memory Capacity**

- 8x 288-pin DDR4 DIMM sockets
- Up to 512GB DDR4 ECC LRDIMM
- Up to 256GB DDR4 ECC RDIMM

**Memory Type**

- 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin (UDIMM) gold-plated DIMMs

**DIMM Sizes**

- RDIMM: 32GB, 16GB, 8GB, 4GB

### Chassis

**Form Factor**

- 1U Rackmount

**Model**

- **CSE-813MTQ-R400CB**

### Dimensions and Weight

**Height**

- 1.7" (43mm)

**Width**

- 17.2" (437mm)

**Depth**

- 19.85" (503mm)

**Package**

- 8" (H) x 24" (W) x 28" (D)

**Weight**

- Gross Weight: 31.4 lbs (14.3 kg)
- Net Weight: 18.6 lbs (8.5 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

**PCI-Express**

- 1x PCI-E 3.0 x16 slot

<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>
<b>On-Board Devices</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 Express chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) via C612 controller</li> <li>RAID 0, 1, 10 support; 5 supported under Windows</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>Intel® i350-AM2 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>10x 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 (2 rear)</li> <li>4x USB 2.0 ports (2 rear + 2 front)</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>1x Fast UART 16550 serial port</li> <li>1x internal header</li> </ul>
<b>DOM</b>	<ul style="list-style-type: none"> <li>2x SuperDOM (Disk on Module) ports</li> </ul>
<b>PC Health Monitoring</b>	
<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 6 fan headers supporting up to 6 fans</li> <li>6 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>Drive Bays</b>	<ul style="list-style-type: none"> <li>4x 3.5" Hot-swap drive bays</li> </ul>
<b>Peripheral Drives</b>	
<b>Optional</b>	<ul style="list-style-type: none"> <li>Optional slim optical device bay, optional FDD/USB bay</li> <li>2x 2.5" Fixed drives internal</li> </ul>
<b>Backplane</b>	
SAS/SATA HDD Backplane (SAS support requires optional SAS controller)	
<b>System Cooling</b>	
<b>Fans</b>	<ul style="list-style-type: none"> <li>4x 40x28mm 4-pin PWM Cooling Fans</li> </ul>
<b>Power Supply</b>	
400W (1+1) Redundant SuperCompact Short-depth AC-DC Gold-level power supply with PMBus and I2C	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>400W: 100-240 V, 50-60 Hz, 6-3 Amp</li> </ul>
<b>DC Output +5V standby</b>	<ul style="list-style-type: none"> <li>3 Amp</li> </ul>
<b>DC Output +12V</b>	<ul style="list-style-type: none"> <li>33 Amp</li> </ul>
<b>With Power Distributor</b>	<ul style="list-style-type: none"> <li>+5V: 25 Amp</li> <li>+3.3V: 25 Amp</li> <li>-12V: 0.6 Amp</li> </ul>
<b>System BIOS</b>	
<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>
<b>Operating Environment / Compliance</b>	
<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

<b>Parts List - (Items Included)</b>			
	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<b>Motherboard / Chassis</b>	MBD-X10SRi-F	1	Super X10SRi-F Motherboard
	CSE-813MTQ-R400CB	1	1U Chassis
<b>Backplane</b>	BPN-SAS-815TQ	1	BPN-SAS-815TQ-O-P
<b>Cable 1</b>	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
<b>Cable 2</b>	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
<b>Peripheral Drive</b>	DVM-TEAC-DVD-SBT3	0	BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS,HF,RoHS/REACH,PBF
<b>Peripheral Drive</b>	DVM-PNSC-DVD-SBT2	0	BLACK PANASONIC SLIM DVD ROM SATA DRIVE ROHS
<b>Riser Card</b>	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
<b>Heatsink / Retention</b>	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-406P-1R	2	1U 400W Redundant Short Depth Power Supply