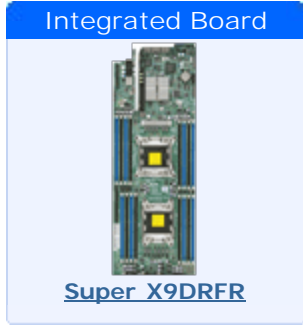


# SuperServer F617R2-R72+



## Key Features

### 8 Hot-plug System Nodes in 4U Each node supports:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
3. Expansion slots: 1 PCI-E 3.0 x16 (LP) 1 PCI-E 3.0 x8 (Micro LP)
4. I/O ports: 2 GbE ports, 1 Built-in video, 1 COM/Serial port, 2 USB 2.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 6 Hot-swap 2.5" SAS2 HDD Bays via LSI 2208 (see [SAS HDD list](#))
7. 3 heavy duty internal fans
8. 1620W Redundant Power Supplies Platinum Level (94%)

Available Colors:

Black



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

## Specifications

### Product SKUs

SYS-F617R2-R72+ ■ SuperServer F617R2-R72+ (Black)

### Motherboard

[Super X9DRFR](#)

### Processor/Cache

CPU ■ Dual Socket R (LGA 2011)  
 ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family†  
 (up to 130W TDP)  
 \* Please contact your Supermicro sales representative for additional details

Note † BIOS version 3.0 or above is required

Cache ■ Up to 30MB

System Bus ■ QPI up to 8 GT/s

### Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-F418BC-R1K62B

### Dimensions

Width ■ 17.63" (448mm)

Height ■ 6.96" (177mm)

Depth ■ 29" (737mm)

Package ■ 28.3" (W) x 15.0" (H) x 42.4" (D)

Weight ■ Net Weight: 150 lbs (68.04 kg)  
 ■ Gross Weight: 200 lbs (90.71 kg)

Available Colors ■ Black

### Front Panel

Buttons ■ Power On/Off button  
 ■ System Reset button

■ Power status LED  
 ■ Hard drive activity LED

System Memory (per node)	
Memory Capacity	<ul style="list-style-type: none"> <li>16x 240-pin DDR3 DIMM slots</li> <li>Up to 1TB DDR3 ECC LRDIMM</li> <li>Up to 512GB DDR3 ECC Registered memory (RDIMM)</li> <li>Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)</li> </ul>
Memory Type	<ul style="list-style-type: none"> <li>1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
AHCI SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1</li> </ul>
SCU SATA	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 10</li> </ul>
SAS	<ul style="list-style-type: none"> <li>SAS2 via LSI 2208</li> <li>HW RAID 0, 1, 5, 6, 10, 50 support</li> </ul>
IPMI	<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>Nuvoton WPCM450 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Intel® i350 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>
Graphics	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output (per node)

AHCI SATA	<ul style="list-style-type: none"> <li>2x SATA 3.0 ports (6Gbps)</li> <li>4x SATA 2.0 ports (3Gbps)</li> </ul>
SCU SATA	<ul style="list-style-type: none"> <li>2x SATA 2.0 ports (3Gbps)</li> </ul>
SAS	<ul style="list-style-type: none"> <li>8x SAS 2.0 ports (6Gbps)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>2x USB 2.0 ports</li> </ul>
VGA	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port</li> </ul>

LEDs	<ul style="list-style-type: none"> <li>2x Network activity LEDs</li> <li>System Overheat LED</li> <li>Power fail LED</li> </ul>
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#### Expansion Slots (per node)

PCI-Express	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x16 Low-profile</li> <li>1x PCI-E 3.0 x8 (Micro LP)</li> <li><a href="#">MicroLP Adapter Matrix</a> (Networking options)</li> </ul>
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#### Drive Bays (per node)

Hot-swap	<ul style="list-style-type: none"> <li>6x Hot-swap 2.5" SAS2/SATA HDD trays</li> </ul>
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#### Backplane

1x SAS2 / SATA backplane	
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#### System Cooling (per node)

Fans	<ul style="list-style-type: none"> <li>3x 4cm 14k RPM middle fans</li> </ul>
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#### Power Supply

1620W high-efficiency redundant power supply w/ PMBus	
AC Input	<ul style="list-style-type: none"> <li>1000W Output @ 100-120V, 12-10A, 50-60Hz</li> <li>1200W Output @ 120-140V, 12-10A, 50-60Hz</li> <li>1620W Output @ 180-240V, 10.5-8A, 50-60Hz</li> </ul>
DC Output	<ul style="list-style-type: none"> <li>1000W: +12V/84A; +5Vsb/4A</li> <li>1200W: +12V/100A; +5Vsb/4A</li> <li>1620W: +12V/150A; +5Vsb/4A</li> </ul>

Certification	  Platinum Certified [ <a href="#">Test Report</a> ]
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#### System BIOS

BIOS Type	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
BIOS Features	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.2</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</li> </ul>

#### Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<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-X9DRFR	8	Super X9DRFR Motherboard
	CSE-F418BC-R1K62B	1	4U Chassis
<b>Backplane</b>	BPN-ADP-S2208L-H8IR	8	BPN-ADP-S2208L-H8IR-O-P; SAS AOC for FAT TWIN
<b>Backplane</b>	BPN-SAS-F418-B6	8	6x 2.5
<b>Cable 1</b>	CBL-0226L	16	43CM SATA ROUND S-RA PBF 26AWG
<b>Cable 2</b>	CBL-0157L-02	8	8 pin to 8 pin ribbon SGPIO cable, 27cm, PBF
<b>Cable 3</b>	CBL-0480L	8	4 pins to 4 pins 40cm PDB to MB power cable HF. 18AWG
<b>Cable 4</b>	CBL-0047L	8	Front ctrl cable 20 PIN TO 20 PIN, PB FREE, 28AWG, 50cm
<b>Cable 5</b>	CBL-0118L-03	8	lpass to 4 SATA cable 23CM, W / 25.5cm SB, S, 30AWG
<b>Riser Card</b>	RSC-R1UF-E16R	8	1U RHS Riser Card with PCI-E X16 for FAT TWIN System
<b>Heatsink / Retention</b>	SNK-P0047PF	8	1U Passive Rear CPU Heat Sink for 1U Node Rear I/O Fat Twin Servers
<b>Heatsink / Retention</b>	SNK-P0047PSM	8	1U Passive Front CPU Heat Sink w/ a Middle Air Channel for X9, X10 2U Twin^2+ and Twin Pro^2 Series Servers
<b>Mounting Rail</b>	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
<b>Optional kit</b>	MCP-450-00001-0N	8	LSI IBBU09 extension kit (to installed at 2.5" HDD location)
	BTR-0022L-LSI00279	8	LSI00279 IBBU09 BATTERY BKUP FOR SAS2208
<b>Software</b>	SFT-OOB-LIC	8	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	8	DataCenter Management Package (per node license)