

# SuperServer F618R2-FC0



## Integrated Board



Super X10DRFF-C

Available Colors:

Black



## Key Features

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

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 512GB ECC DDR4 2133MHz; 8x DIMM slots
3. 1x PCI-E 3.0 x16 (LP) slot
4. I/O ports: 2 GbE ports, 1 Built-in video, 1 COM port onboard, 2 USB 3.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 2x 2.5" Hot-swap SAS3 HDD Bays; SAS3 (12Gbps) via LSI 3008
7. 1620W Redundant Power Supplies Platinum Level (94%)

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

## Specifications

Product SKUs	
SYS-F618R2-FC0	▪ SuperServer SSF618R2-FC0 (Black)
Motherboard	
Super X10DRFF-C	
Processor/Cache	
CPU	▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) * ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 18 Cores / Up to 45MB Cache
System Bus	▪ QPI up to 9.6 GT/s
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
System Memory	
Memory Capacity	▪ 8x 288-pin DDR4 DIMM slots ▪ Up to 512GB ECC LRDIMM, 256GB ECC RDIMM
Memory Frequency	▪ 2133/1866/1600MHz ECC DDR4 SDRAM

Chassis	
Form Factor	▪ 4U Rackmount
Model	▪ CSE-F418IL-R1K62B
Dimensions and Weight	
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
LEDs	▪ Power status LED ▪ 2x Network activity LEDs ▪ System Overheat LED ▪ Power fail LED
Expansion Slots (per node)	
PCI-E	▪ 1x PCI-E 3.0 x16 Low-profile via riser card

<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> </ul>
<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> </ul>
<b>On-Board Devices</b>	
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>SAS3 (12Gbps) via LSI 3008</li> <li>SW RAID 0, 1, 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 Single 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 RTL8211E PHY (dedicated IPMI)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output (per node)</b>	
<b>SAS</b>	<ul style="list-style-type: none"> <li>2x SAS3 (12Gbps) 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</li> </ul>
<b>VGA</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 port</li> </ul>

**Drive Bays (per node)**

- Hot-swap**
  - 2x 2.5" Hot-swap SAS3 HDD trays

**System Cooling**

- Fans**
  - 8x 8cm 11k RPM middle fans

**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/150A; +5Vsb/4A

**Certification**

**Platinum Certified**  
[ [Test Report](#) ]

**System BIOS**

- BIOS Type**
  - 128Mb SPI Flash EEPROM with AMI BIOS

**BIOS Features**

- Plug and Play (PnP)
  - APM 1.2
  - PCI 2.3
  - ACPI 1.0 / 2.0 / 3.0 / 4.0
  - USB Keyboard support
  - SMBIOS 2.7.1
  - UEFI 2.3.1

**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 - (Items Included)**

	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<b>Motherboard / Chassis</b>	MBD-X10DRFF-C	8	Super X10DRFF-C Motherboard
	CSE-F418IL-R1K62B	1	4U Chassis
<b>Backplane</b>	BPN-SAS3-F418-B2R	8	Backplane support 2 x 2.5" hot-plug SAS3/SATA3 HDD/SSD. HF,RoHS/REACH
<b>Cable 1</b>	CBL-SAST-0550	8	Internal Mini-SAS HD to Mini-SAS HD 25cm,30AWG,HF,RoHS/REACH,PBF
<b>Cable 2</b>	CBL-0486L	8	2x2 to 2x2 15cm power cable HF. 18AWG
<b>Riser Card</b>	RSC-R1UFF-E16-O-P	8	1U LHS FatTwin Riser Card with PCI-E x16
<b>Heatsink / Retention</b>	SNK-P0057P	8	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
<b>Heatsink / Retention</b>	SNK-P0047P	8	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
<b>Power Supply</b>	PWS-1K62P-1R	4	1620W REDUNDANT POWER MODULE

**Optional Parts List**

	<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
<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)