

# SuperServer F618R3-FTPT+



## 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 1TB ECC DDR4 2133MHz; 16x DIMM slots
3. 1x PCI-E 3.0 x8, 1x PCI-E 2.0 x4, or 2x PCI-E 3.0 x8 (optional)
4. I/O ports: 2 10GBase-T, 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 3.5" fixed drives
7. 2000W Redundant Power Supplies **Titanium Level (96%)**

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

## Specifications

### Product SKUs

- SYS-F618R3-FTPT+** ■ SuperServer F618R3-FTPT+ (**Black**)

### Motherboard

#### Super X10DRFF-ITG

### 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** ■ 16x 288-pin DDR4 DIMM slots  
■ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM

### Chassis

- Form Factor** ■ 4U Rackmount

- Model** ■ **CSE-F418IF2-R2K04B**

### Dimensions and Weight

- Width** ■ 17.63" (448mm)

- Height** ■ 6.96" (177mm)

- Depth** ■ 29" (737mm)

- Package** ■ 28.35" (W) x 14.95" (H) x 42.38" (D)

- Weight** ■ Net Weight: 150 lbs (68.04 kg)  
■ Gross Weight: 200 lbs (90.72 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)

<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 SDRAM 72-bit</li> </ul>
<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>

#### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
<b>SATA</b>	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</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® X540 Dual Port 10GBase-T</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-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>

#### Input / Output (per node)

<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 10GBase-T 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>

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>1x PCI-E 3.0 x8, 1x PCI-E 2.0 x4, or 2x PCI-E 3.0 x8 (optional)</li> </ul>
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#### Drive Bays (per node)

<b>Fixed</b>	<ul style="list-style-type: none"> <li>2x 3.5" fixed drives</li> </ul>
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#### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>8x 8cm 9.5k RPM Rear fans</li> </ul>
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#### Power Supply with Digital Switching Control

2000W Titanium Level (96%) High-efficiency Redundant Power Supplies

<b>Total Output Power</b>	<ul style="list-style-type: none"> <li>1000W/1800W/1980W/2000W</li> </ul>
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<b>AC Input</b>	<ul style="list-style-type: none"> <li>100-127 V, 50-60 Hz</li> <li>200-220 V, 50-60 Hz</li> <li>220-230 V, 50-60 Hz</li> <li>230-240 V, 50-60 Hz</li> </ul>
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<b>+12V</b>	<ul style="list-style-type: none"> <li>Max: 83.3A &amp; Min: 0A (100Vac-127Vac)</li> <li>Max: 150A &amp; Min: 0A (200Vac-220Vac)</li> <li>Max: 165A &amp; Min: 0A (220Vac-230Vac)</li> <li>Max: 166.7A &amp; Min: 0A (230Vac-240Vac)</li> </ul>
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<b>5V SB</b>	<ul style="list-style-type: none"> <li>Max: 1A / Min: 0A</li> </ul>
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<b>Certification</b>	  <b>Titanium Level [ Test Report ]</b>
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#### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
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<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.3</li> <li>ACPI 1.0 / 2.0 / 3.0 / 4.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.7.1</li> <li>UEFI 2.3.1</li> </ul>
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#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
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<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>
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X10DRFF-ITG	8	Super X10DRFF-ITG Motherboard
	CSE-F418IF2-R2K04B	1	4U Chassis
<b>Backplane</b>	BPN-ADP-F418L	8	BPN;SASADP;SAS827-H8;H8DTT;cable req
<b>Cable 1</b>	CBL-0484L	16	55cm 30AWG SATA S-S cable
<b>Cable 2</b>	CBL-PWEX-0708	8	8 Pin to 2 SATA Power cable 55cm and 65cm. 18AWG,RoHS/REACH
<b>Label</b>	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
<b>Manual</b>	MNL-1765-QRG	1	Quick Reference Guide for F618R3-FT+ / FTPT+
<b>Riser Card</b>	RSC-R1UFF-E8	8	RSC-R1UFF-E8
<b>Riser Card</b>	RSC-R1UFF-E8R	8	RSC-R1UFF-E8R
<b>Heatsink / Retention</b>	SNK-P0047PS	16	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-2K04A-1R	4	AC-DC 2000W, Titanium Level, Redundancy, 1U, PMBus 1.2, +12V/+5Vsb, 360x76x40mm,HF,RoHS/REACH

### Optional Parts List

	Part Number	Qty	Description
<b>Power Supply</b>	PWS-1K62P-1R	-	1620W Platinum power supply
<b>Riser Card</b>	RSC-88-F1 and RSC-88-F2	-	Dual slot PCIe Gen3 x8 riser card
<b>Cable</b>	CBL-OTHR-0758	-	2x CBL-OTHR-0758 per dual x8 riser card set
<b>Motherboard</b>	X10DRFF-CTG	-	SAS3 onboard version, with LSI 3008
<b>Cable</b>	CBL-SAST-0757	-	INT MINI SAS HD to SAS 29px2 + 8p 2x4(5,12V) GPU PWR BLK
<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)