

# SuperServer F617R2-FT+



## Integrated Board



Super X9DRFF-i+

Available Colors:

Black



## 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 slot: 1 PCI-E 3.0 x16 (LP), 1 PCI-E 3.0 x8 (LP) via riser card
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. Up to 4 Fixed 2.5" SATA HDD Bays (2 by default, 2 more via optional kit)
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-F617R2-FT+	▪ SuperServer F617R2-FT+ (Black)
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### Motherboard

Super X9DRFF-i+

### Processor/Cache

CPU	<ul style="list-style-type: none"> <li>▪ Dual Socket R (LGA 2011)</li> <li>▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP *)</li> </ul> <p>* Please contact your Supermicro sales representative for additional details</p>
Note	† BIOS version 3.0 or above is required

Cache

- Up to 30MB

System Bus

- QPI up to 8 GT/s

### 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> </ul>
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### Chassis

Form Factor	▪ 4U Rackmount
Model	▪ CSE-F4181F-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	<ul style="list-style-type: none"> <li>▪ Net Weight: 150 lbs (68.04 kg)</li> <li>▪ Gross Weight: 200 lbs (90.71 kg)</li> </ul>
Available Colors	▪ Black

### Front Panel

Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>▪ Power status LED</li> <li>▪ 2x Network activity LEDs</li> <li>▪ System Overheat LED</li> <li>▪ Power fail LED</li> </ul>

### Expansion Slots (per node)

PCI-E	▪ 1 PCI-E 3.0 x16 (Low-profile)
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	Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
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 3.0 6Gbps with RAID 0, 1</li> <li>SATA 2.0 3Gbps with RAID 0, 1</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>2x SATA 2.0 ports (3Gbps)</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>

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- 1 PCI-E 3.0 x8 (Low-profile) via riser card

#### Drive Bays (per node)



Fixed	<ul style="list-style-type: none"> <li>4x Fixed 2.5" SATA HDD trays (2 by default, 2 more via optional kit)</li> </ul>
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#### System Cooling

Fans	<ul style="list-style-type: none"> <li>8x 8cm 9.5k RPM rear 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>DMI 2.3</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
Motherboard / Chassis	MBD-X9DRFF-i+	8	Super X9DRFF-i+ Motherboard
	CSE-F418IF-R1K62B	1	4U Chassis
Backplane	BPN-ADP-F418L	8	BPN;SASADP;SAS827-H8;H8DTT; cable req
Cable 1	CBL-0484L	16	55cm 30AWG SATA S-S cable
Cable 2	CBL-0487L	8	8 Pin to 2 SATA Power cable 25cm and 35cm. 18AWG
Riser Card	RSC-R1UFF-E8R	8	RSC-R1UFF-E8R
Riser Card	RSC-R1UFF-E16	8	1U LHS FatTwin Riser Card with PCI-E x16
Heatsink / Retention	SNK-P0047PS	16	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Mounting Rail	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
Optional kit (for 2 optional HDDs)	MCP-220-00044-0N	8	Dual 2.5" fixed HDD bracket
	CBL-0484L	16	55cm 30AWG SATA S-S cable
	CBL-0487L	8	8 Pin to 2 SATA Power cable 25cm and 35cm. 18AWG
Software	SFT-OOB-LIC	8	OOB Management Package (per node license)
Software	SFT-DCMS-Single	8	DataCenter Management Package (per node license)