

SuperServer F618R3-FT+



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 GbE, 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-FT+	▪ SuperServer F618R3-FT+ (Black)
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Motherboard

Super X10DRFF-IG

Processor/Cache

CPU	▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) * ▪ Dual Socket R3 (LGA 2011)
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Cores / Cache	▪ Up to 18 Cores / Up to 45MB Cache
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System Bus	▪ QPI up to 9.6 GT/s
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Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
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System Memory

Memory Capacity	▪ 16x 288-pin DDR4 DIMM slots ▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
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Chassis

Form Factor	▪ 4U Rackmount
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Model	▪ CSE-F418IF2-R2K04B
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Dimensions and Weight

Width	▪ 17.63" (448mm)
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Height	▪ 6.96" (177mm)
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Depth	▪ 29" (737mm)
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Package	▪ 28.35" (W) x 14.95" (H) x 42.38" (D)
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Weight	▪ Net Weight: 150 lbs (68.04 kg) ▪ Gross Weight: 200 lbs (90.72 kg)
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Available Colors	▪ Black
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Front Panel

Buttons	▪ Power On/Off button ▪ System Reset button
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LEDs	▪ Power status LED ▪ 2x Network activity LEDs ▪ System Overheat LED ▪ Power fail LED
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Expansion Slots (per node)

Memory Type	<ul style="list-style-type: none"> 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none"> 1.2 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C612 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Dual Port Gigabit Ethernet Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8211E PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output (per node)

SATA	<ul style="list-style-type: none"> 10x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2x USB 3.0 ports
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port

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

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

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

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

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

BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
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BIOS Features	<ul style="list-style-type: none"> 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
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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Environmental Spec.	<ul style="list-style-type: none"> 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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRFF-IG	8	Super X10DRFF-IG Motherboard
	CSE-F418IF2-R2K04B	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-PWEX-0708	8	8 Pin to 2 SATA Power cable 55cm and 65cm. 18AWG,RoHS/REACH
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1765-QRG	1	Quick Reference Guide for F618R3-FT+ / FTPT+
Riser Card	RSC-R1UFF-E8	8	RSC-R1UFF-E8
Riser Card	RSC-R1UFF-E8R	8	RSC-R1UFF-E8R
Heatsink / Retention	SNK-P0047PS	16	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	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
Power Supply	PWS-1K62P-1R	-	1620W Platinum power supply
Riser Card	RSC-88-F1 and RSC-88-F2	-	Dual slot PCIe Gen3 x8 riser card
Cable	CBL-OTHR-0758	-	2x CBL-OTHR-0758 per dual x8 riser card set
Motherboard	X10DRFF-CTG	-	SAS3 onboard version, with LSI 3008
Cable	CBL-SAST-0757	-	INT MINI SAS HD to SAS 29px2 + 8p 2x4(5,12V) GPU PWR BLK
Software	SFT-OOB-LIC	8	OOB Management Package (per node license)
Software	SFT-DCMS-Single	8	DataCenter Management Package (per node license)