

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 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 3.5" Fixed SATA HDD Bays
7. 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-F618R3-FT** ■ SuperServer F618R3-FT (**Black**)

Motherboard

Super X10DRFF

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

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

Memory Type	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	▪ RDIMM: 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB
Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors

On-Board Devices

Chipset	▪ Intel® C612 chipset
SATA	▪ SATA3 (6Gbps) with RAID 0, 1
IPMI	▪ 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	▪ Dual Intel® i210 Single 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	▪ ASPEED AST2400 BMC

Input / Output (per node)

SATA	▪ 2x SATA3 (6Gbps) ports
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 2x USB 3.0 ports
VGA	▪ 1x VGA port
Serial Port / Header	▪ 1x Fast UART 16550 port

Expansion Slots (per node)

PCI-Express	▪ 1x PCI-E 3.0 x16 Low-profile via riser card
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Drive Bays (per node)

Fixed	▪ 2x 3.5" Fixed SATA HDD trays
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System Cooling

Fans	▪ 8x 8cm 11k RPM Rear fans
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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
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DC Output	▪ 1000W: +12V/84A; +5Vsb/4A ▪ 1200W: +12V/100A; +5Vsb/4A ▪ 1620W: +12V/150A; +5Vsb/4A
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Certification	  Platinum Certified [Test Report]
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System BIOS

BIOS Type	▪ 128Mb SPI Flash EEPROM with AMI BIOS
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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
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Operating Environment / Compliance

RoHS	▪ RoHS Compliant
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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)
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Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRFF	8	Super X10DRFF Motherboard
	CSE-F418IL-R1K62B	1	4U Chassis
Cable 1	CBL-0487L	8	8 Pin to 2 SATA Power cable 25cm and 35cm. 18AWG
Cable 2	CBL-0488L	16	55cm SATA cable S-RA 30AWG
Riser Card	RSC-R1UFF-E16-O-P	8	1U LHS FatTwin Riser Card with PCI-E x16
Heatsink / Retention	SNK-P0057P	8	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
Heatsink / Retention	SNK-P0047P	8	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
Power Supply	PWS-1K62P-1R	4	1620W REDUNDANT POWER MODULE

Optional Parts List

	Part Number	Qty	Description
Software	SFT-OOB-LIC	8	OOB Management Package (per node license)
Software	SFT-DCMS-Single	8	DataCenter Management Package (per node license)