

Supermicro SDR-F618R3-FT 4U 8-Node FatTwin

- 4U rackmount • Each node supports 2x Intel® Xeon® E5-2600 v3 processors, up to 512GB DDR4 2133MHz ECC memory, and 2x 3.5" fixed SATA HDD bays

The Supermicro SDR-F618R3-FT rackmount is the latest server to feature 8 nodes in a 4U form factor. Each node supports dual Intel® Xeon® E5-2600 v3 series processors, 2x 3.5" fixed SATA HDD bays, dual Gbe LAN ports and up to 512GB of ECC memory. This 4U FatTwin server also features high storage and networking I/O, making this server ideal for datacenters, cloud computing, HPC, engineering, research and GPU projects, file/storage server deployments, and general server and enterprise server applications.



Features

4U 8-Node Server

Supermicro's FatTwin architecture greatly expands compute and storage capacities, networking, I/O, memory and processing capabilities in a 4U form factor, allowing customers to further optimize Supermicro solutions to solve their most challenging IT requirements.

Intel® Xeon® Processors

The Intel Xeon E5-2600 v3 processor family delivers the scalable performance and reliability needed for an ever-changing server environment.

DDR4 2133MHz ECC Memory

By correcting 99.9% of memory errors that may occur, ECC memory ensures data safety and keeps systems running. Additionally, DDR4 memory features up to 50% increase in both bandwidth and power efficiency.

SATA Storage

Enterprise SATA storage provides the high capacities required for storage demanding applications and are designed for 24x7 server environments.

SPECIFICATION HIGHLIGHTS

Form Factor

4U Rackmount

Power Supply

1620W redundant power supplies

EACH NODE FEATURES:

Processor

2x Intel® Xeon® E5-2600 v3 series

Memory

8x DIMM sockets supporting up to 512GB DDR4 2133MHz ECC memory

Storage

2x 3.5" fixed SATA HDD bays

Chipset

Intel C612 Chipset

Contact Information

Servers Direct • www.ServersDirect.com • 800-576-7931

**SDR-F618R3-FT
SPECIFICATIONS**

MotherboardSuper X10DRFE

Processor / Cache (per node)

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

System Memory (per node)

Memory Capacity: 8x 288-pin DDR4 DIMM slots | Up to 512GB ECC LRDIMM or 256GB ECC RDIMM

Memory Type: 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes: RDIMM: 32GB, 16GB, 8GB, 4GB | LRDIMM: 64GB, 32GB

Memory Voltage: 1.2V

Error Detection: Corrects single-bit errors

On-Board Devices (per node)

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

Chassis

Form Factor: 4U rackmount

Model: CSE-F481L-R1K62B

Dimensions and Weight

Width: 17.63" [448 mm]

Height: 6.96" [177 mm]

Depth: 29" [737 mm]

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

**SDR-F618R3-FT
SPECIFICATIONS**

Expansion Slots (per node)

PCI-Express: 1x PCI-E 3.0 x16 low profile via riser card

Drive Bays (per node)

Fixed: 2x 3.5" fixed SATA HDD trays

System Cooling

Fans: 8x 8cm 11k RPM rear 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

System BIOS

BIOS Type: 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features: Plug and Play (PhP) | 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 Specifications: 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]
