

SuperServer F618R3-FTL



Integrated Board



Super X10DRFF

Available Colors:

Black



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%)
8. 17cm Rear Fans (2x total)

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-FTL | ■ SuperServer F618R3-FTL (Black) |
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Motherboard

Super X10DRFF

Processor/Cache

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| CPU | <ul style="list-style-type: none"> ■ 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

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| Memory Capacity | <ul style="list-style-type: none"> ■ 8x 288-pin DDR4 DIMM slots ■ Up to 512GB ECC LRDIMM, 256GB ECC RDIMM |
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| Memory | ■ 2133/1866/1600MHz ECC DDR4 SDRAM |
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Chassis

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| Form Factor | ■ 4U Rackmount |
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|-------|---------------------|
| Model | ■ CSE-F4181L-R1K62B |
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Dimensions and Weight

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| Width | ■ 17.63" (448mm) |
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| Height | ■ 6.96" (177mm) |
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| Depth | ■ 29" (737mm) |
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|---------|-------------------------------------|
| Package | ■ 28.3" (W) x 15.0" (H) x 42.4" (D) |
|---------|-------------------------------------|

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| Weight | <ul style="list-style-type: none"> ■ Net Weight: 150 lbs (68.04 kg) ■ Gross Weight: 200 lbs (90.71 kg) |
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| | |
|------------------|---------|
| Available Colors | ■ Black |
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Front Panel

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|---------|--|
| Buttons | <ul style="list-style-type: none"> ■ Power On/Off button ■ System Reset button |
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| LEDs | <ul style="list-style-type: none"> ■ Power status LED ■ 2x Network activity LEDs ■ System Overheat LED ■ Power fail LED |
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Expansion Slots (per node)

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| PCI-Express | ■ 1x PCI-E 3.0 x16 Low-profile via riser card |
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|-----------------|---|
| Type | 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

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|---------------------|--|
| Chipset | <ul style="list-style-type: none"> Intel® C612 chipset |
| SATA | <ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1 |
| 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"> 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 | <ul style="list-style-type: none"> ASPEED AST2400 BMC |

Input / Output (per node)

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|----------------------|---|
| SATA | <ul style="list-style-type: none"> 2x 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 |

Drive Bays (per node)

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| Fixed | <ul style="list-style-type: none"> 2x 3.5" Fixed SATA HDD trays |
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System Cooling

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| Fans | <ul style="list-style-type: none"> 2x 17cm Rear fans |
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Power Supply

1620W high-efficiency redundant power supply w/ PMBus

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| AC Input | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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

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| BIOS Type | <ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS |
| 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 |

Operating Environment / Compliance

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|---------------------|---|
| RoHS | <ul style="list-style-type: none"> RoHS Compliant |
| 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) |

Parts List

[See Parts List](#)

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) |

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