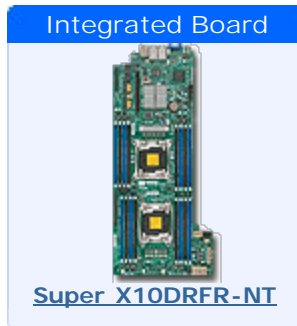


SuperServer F618R2-R72PT+



Views: | [Angled with Callout \(node\)](#) | [Top \(node\)](#) | [Angled Front \(system\)](#) | [Rear \(system\)](#) |

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. Expansion slots: 1 PCI-E 3.0 x16 (LP) 1 PCI-E 3.0 x8 (Micro Low Profile)
4. I/O ports: 2 10GBase-T, 1 Built-in video, 1 COM/Serial port, 2 USB 3.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 6x Hot-swap 2.5" SAS2 HDD Bays via LSI 2208 (see [SAS HDD list](#))
7. 3x heavy duty internal fans
8. 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-F618R2-R72PT+ ■ SuperServer F618R2-R72PT+ (Black)

Motherboard

[Super X10DRFR-NT](#)

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 ■ 16x 288-pin DDR4 DIMM slots
■ Up to 1TB ECC LRDIMM, 512GB ECC

Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-F418BC-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
■ Hard drive activity LED
■ 2x Network activity LEDs
■ System Overheat LED
■ Power fail LED

Capacity	RDIMM
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
SAS	<ul style="list-style-type: none"> SAS2 via LSI 2208 (1GB cache) HW RAID 0, 1, 5, 6, 10, 50, 60 support
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® X540 Dual Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> ASPEED AST2400 BMC

Input / Output (per node)

Serial ATA	<ul style="list-style-type: none"> 8x SATA3 (6Gbps) ports 2x SATA3 powered ports that support SATA DOM
SAS	<ul style="list-style-type: none"> 8x SAS2 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 10GBase-T 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

Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5 Watch Dog NMI IPMI 2.0 SMCBU and SMM
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management Power-on mode for AC power recovery

Expansion Slots (per node)

PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x16 Low-profile 1x PCI-E 3.0 x8 (Micro LP) MicroLP Adapter Matrix (Networking options)
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Drive Bays (per node)

Hot-swap	<ul style="list-style-type: none"> 6x 2.5" Hot-swap SAS2/SATA3 HDD trays
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Backplane

1x SAS/SATA backplane

System Cooling (per node)

Fans	<ul style="list-style-type: none"> 3x 4cm 14k RPM middle fans
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Power Supply

1620W high-efficiency redundant power supply w/ PMBus

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

Certification



Platinum Certified

[[Test Report](#)]

System BIOS

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 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

Operating Environment / Compliance

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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRFR-NT	8	Super X10DRFR-NT Motherboard
	CSE-F418BC-R1K62B	1	4U Chassis
Backplane	BPN-SAS-F418-B6	8	6x 2.5
Backplane	BPN-ADP-S2208L-H8IR	8	BPN-ADP-S2208L-H8IR-O-P; SAS AOC for FAT TWIN
Backplane	BPN-ADP-F418LS	8	Power Distribution Board for X10DRFR,RoHS/REACH,PBF
Cable 1	CBL-0118L-03	8	lpass to 4 SATA cable 23CM, W / 25.5cm SB, S, 30AWG
Cable 2	CBL-OTHR-0022L	8	28AWG,RoHS/REACH,PBF
Cable 3	CBL-0157L-02	8	8 pin to 8 pin ribbon SGPIO cable with tube, 27cm, PBF
Cable 4	CBL-0226L	16	43CM SATA ROUND S-RA PBF 26AWG
Cable 5	CBL-0486L	16	2x2 to 2x2 15cm power cable HF. 18AWG
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1651-QRG	1	Quick Reference Guide for SYS-618R2-RTPT+/R72PT+,HF,RoHS/REACH
Riser Card	RSC-R1UF-E16R	8	1U RHS Riser Card with PCI-E X16 for FAT TWIN System
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-P0047PSM	8	1U Passive Front CPU Heat Sink w/ a Middle Air Channel for X9, X10 2U Twin^2+ and Twin Pro^2 Series Servers
Power Supply	PWS-1K62P-1R	4	1620W REDUNDANT POWER MODULE

Optional Parts List

	Part Number	Qty	Description
Optional kit	MCP-450-00001-0N	8	LSI iBBU09 extension kit (to installed at 2.5" HDD location)
	BTR-0022L-LSI00279	8	LSI00279 iBBU09 BATTERY BKUP FOR SAS2208
Software	SFT-OOB-LIC	8	OOB Management Package (per node license)
Software	SFT-DCMS-Single	8	DataCenter Management Package (per node license)