

# Supermicro SuperServer SYS-F618R2-R72+ 4U FatTwin^4 DP 8x6SFF RED PSU

**Part number: SYS-F618R2-R72+**

Chassis Form Factor	Rack 4U
# of systems (nodes)	8
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets (per node)	2
Supported CPU's	Intel Xeon E5-2600v3
Max CPU TDP	145 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2133 MHz 1866 MHz 1600 MHz
# of DIMM's (per node)	16
Max Memory Size (per node)	1024 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays (per node)	6
Backplanes	SAS2/SATA3
# of PCIe x16 3.0 (per node)	1
# of PCIe x8 3.0 (per node)	1
# of USB Ports (per node)	2 x USB 3.0 (rear) 1 x USB 2.0 Type A
# of SATA Ports (per node)	10
# of SAS Ports (per node)	8
Storage Controllers	6 x AHCI iSATA 6Gb/s 4 x sSATA 6Gb/s LSI 2208 6Gb/s
Integrated RAID	0,1,5,10
Hardware RAID	0,1,5,6,10,50,60
# of Serial Ports (per node)	1 x Fast UART 16550 (header)
# of 1GbE Ports (per node)	2 x RJ45
Network Controllers	Intel i350 Dual Port Gigabit Ethernet
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	1620W
PSU Certification	80+ Platinum
Chassis Dimensions	448 x 177 x 737mm



Product SKUs <input type="checkbox"/>	SYS-F618R2-R72+ • SuperServer F618R2-R72+ (Black)	<input type="checkbox"/>	Chassis
Motherboard <input type="checkbox"/>		<input type="checkbox"/>	Form Factor • 4U Rackmount Model • <b>CSE-F418BC-R1K62BP</b>
<b>Super X10DRFR</b>		<input type="checkbox"/>	Dimensions and Weight
Processor/Cache <input type="checkbox"/>		<input type="checkbox"/>	Width • 17.63" (448mm) Height • 6.96" (177mm) Depth • 29" (737mm)
CPU • Intel® Xeon® processor E5-2600 v4/ v3 family (up to 145W TDP) * • Dual Socket R3 (LGA 2011)		<input type="checkbox"/>	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)
Cores / Cache • Up to <b>22 Cores</b> / Up to <b>55MB</b> Cache		<input type="checkbox"/>	Available Colors • Black
System Bus • QPI up to 9.6 GT/s		<input type="checkbox"/>	Front Panel
Note <sup>1</sup> BIOS version 2.0 or above is required		<input type="checkbox"/>	Buttons • Power On/Off button • UID button • Power status LED • Hard drive activity LED • 2x Network activity LEDs • Information LED (UID, Fan failure, Overheat)
Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.		<input type="checkbox"/>	LEDs
System Memory <input type="checkbox"/>		<input type="checkbox"/>	Expansion Slots (per node) <input type="checkbox"/>
Memory Capacity • 16x 288-pin DDR4 DIMM slots • Up to 2TB <sup>1</sup> ECC 3DS LRDIMM, 1TB ECC RDIMM		<input type="checkbox"/>	• 1x PCI-E 3.0 x16 Low-profile • 1x PCI-E 3.0 x8 (Micro LP)
Memory Type • <b>2400</b> /2133/1866/1600MHz ECC DDR4 SDRAM 72-bit		<input type="checkbox"/>	PCI-Express • <a href="#">MicroLP Adapter Matrix</a> (Networking options)
Memory Type • RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB		<input type="checkbox"/>	Drive Bays (per node) <input type="checkbox"/>
DIMM Sizes • LRDIMM: 64GB, 32GB		<input type="checkbox"/>	Hot-swap • 6x 2.5" Hot-swap SAS2/SATA3 HDD trays
Memory Voltage • 1.2 V		<input type="checkbox"/>	Backplane <input type="checkbox"/>
Error Detection • Corrects single-bit errors		<input type="checkbox"/>	1x SAS/SATA backplane
On-Board Devices <input type="checkbox"/>		<input type="checkbox"/>	System Cooling (per node) <input type="checkbox"/>
Chipset • Intel® C612 chipset		<input type="checkbox"/>	Fans • 3x 4cm 14k RPM middle fans
SATA • SATA3 (6Gbps) with RAID 0, 1, 5, 10		<input type="checkbox"/>	Power Supply 1620W high-efficiency redundant power supply w/ PMBus
SAS • SAS2 via LSI 2208 (1GB cache) • HW RAID 0, 1, 5, 6, 10, 50, 60 support		<input type="checkbox"/>	• 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
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		<input type="checkbox"/>	AC Input • 1000W: +12V/84A; +5Vsb/4A • 1200W: +12V/100A; +5Vsb/4A • 1620W: +12V/150A; +5Vsb/4A
Network Controllers • Intel® i350-AM2 Dual Port Gigabit Ethernet • Virtual Machine Device Queues reduce I/O overhead • Supports 10BASE-T, 100BASE-TX and 1000BASE-T, RJ45 output • 1x Realtek RTL8201N PHY (dedicated IPMI)		<input type="checkbox"/>	DC Output • 1000W: +12V/84A; +5Vsb/4A • 1200W: +12V/100A; +5Vsb/4A • 1620W: +12V/150A; +5Vsb/4A
Graphics • ASPEED AST2400 BMC		<input type="checkbox"/>	Certification <input type="checkbox"/> <input type="checkbox"/> <b>Platinum Certified</b> <b>[ Test Report ]</b>
Input / Output (per node) <input type="checkbox"/>		<input type="checkbox"/>	System BIOS <input type="checkbox"/>
Serial ATA • 10x SATA3 (6Gbps) ports		<input type="checkbox"/>	BIOS Type • 128Mb SPI Flash EEPROM with AMI BIOS • Plug and Play (PnP) • APM 1.2 • PCI 2.2
SAS • 8x SAS2 (6Gbps) ports		<input type="checkbox"/>	BIOS Features • ACPI 1.0 / 2.0 • USB Keyboard support • SMBIOS 2.3 • UEFI
LAN • 2x RJ45 Gigabit Ethernet LAN ports		<input type="checkbox"/>	Operating Environment / Compliance <input type="checkbox"/>
USB • 1x RJ45 Dedicated IPMI LAN port		<input type="checkbox"/>	RoHS • RoHS Compliant • 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)
VGA • 2x USB 3.0 ports • 1x VGA port		<input type="checkbox"/>	Environmental Spec. • Operating Relative Humidity: 8% to 90% (non-condensing) • Non-operating Relative Humidity: 5% to 95% (non-condensing)
Management <input type="checkbox"/>		<input type="checkbox"/>	
Software • <a href="#">SuperDoctor@5</a> • Watch Dog • NMI • IPMI 2.0 • <a href="#">SUM</a> and <a href="#">SSM</a>		<input type="checkbox"/>	
Power Configurations • ACPI / APM Power Management • Power-on mode for AC power recovery		<input type="checkbox"/>	

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