

SuperServer F617R2-F72+



Available Colors: Black

Key Features

8 Hot-plug System Nodes in 4U Each node supports:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1TB ECC DDR3, up to 1866MHz; 16x DIMM slots
3. Expansion slot: 1 PCI-E 3.0 x16 (LP), 1 PCI-E 3.0 x8 (LP) via riser cards
4. I/O ports: 2 GbE ports, 1 Built-in video, 1 COM/Serial port, 2 USB 2.0 ports
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 4 Fixed 2.5" SAS HDD Bays
7. 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-F617R2-F72+	▪ SuperServer F617R2-F72+ (Black)
Motherboard	
<u>Super X9DRFF-7+</u>	
Processor/Cache	
CPU	<ul style="list-style-type: none"> ▪ Dual Socket R (LGA 2011) ▪ Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP *) <p>* Please contact your Supermicro sales representative for additional details</p>
Note	† BIOS version 3.0 or above is required
Cache	▪ Up to 30MB
System Bus	▪ QPI up to 8 GT/s
System Memory (per node)	
Memory Capacity	<ul style="list-style-type: none"> ▪ 16x 240-pin DDR3 DIMM slots ▪ Up to 1TB DDR3 ECC LRDIMM ▪ Up to 512GB DDR3 ECC Registered memory (RDIMM) ▪ Up to 128GB DDR3 ECC Un-Buffered (UDIMM)

Chassis	
Form Factor	▪ 4U Rackmount
Model	▪ CSE-F418IF-R1K62BP
Dimensions	
Width	▪ 17.63" (448mm)
Height	▪ 6.96" (177mm)
Depth	▪ 29" (737mm)
Package	▪ 28.3" (W) x 15.0" (H) x 42.4" (D)
Weight	<ul style="list-style-type: none"> ▪ Net Weight: 150 lbs (68.04 kg) ▪ Gross Weight: 200 lbs (90.71 kg)
Available Colors	▪ Black
Front Panel	
Buttons	<ul style="list-style-type: none"> ▪ Power On/Off button ▪ System Reset button
LEDs	<ul style="list-style-type: none"> ▪ Power status LED ▪ 2x Network activity LEDs ▪ System Overheat LED ▪ Power fail LED
Expansion Slots (per node)	
PCI-Express	▪ 1 PCI-E 3.0 x16 (Low-profile) via riser card

Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
AHCI SATA	<ul style="list-style-type: none"> SATA 3.0 6Gbps SATA 2.0 3Gbps
SAS	<ul style="list-style-type: none"> SAS2 (6Gbps) via LSI 2208 HW RAID 0, 1, 5, 6, 10 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 Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 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)
Graphics	<ul style="list-style-type: none"> Matrox G200eW

Input / Output (per node)

SAS	<ul style="list-style-type: none"> 4x SAS2 ports (6Gbps)
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"> 3x USB 2.0 ports (2 rear + 1 Type A)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port

- 1 PCI-E 3.0 x8 (Low-profile) via riser card

Drive Bays (per node)

- Fixed
 - 4x Fixed 2.5" SAS HDD trays

System Cooling

- Fans
 - 8x 8cm 9.5k 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

Certification



Platinum Certified
[[Test Report](#)]

System BIOS

- BIOS Type
 - 128Mb SPI Flash EEPROM with AMI BIOS
- BIOS Features
 - Plug and Play (PnP)
 - APM 1.2
 - DMI 2.3
 - PCI 2.2
 - ACPI 1.0 / 2.0
 - USB Keyboard support
 - SMBIOS 2.3
 - UEFI

Operating Environment / Compliance

- RoHS
 - RoHS Compliant
- 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)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRFF-7+	8	Super X9DRFF-7+ Motherboard
	CSE-F418IF-R1K62BP	1	4U Chassis
Backplane	BPN-ADP-F418L	8	BPN;SASADP;SAS827-H8;H8DTT;cable req
Cable 1	CBL-SAST-0529-01	16	2 SAS to 2 SATA and 1 8-pin power connector,40/50/15cm,30/20AWG [ATL],RoHS/REACH
Cable 2	CBL-SAST-0529	16	2 SAS to 2 SATA and 1 8-pin power connector,40/50/15cm,30/20AWG,HF,RoHS/REACH,PBF
Riser Card	RSC-R1UFF-E8R	8	RSC-R1UFF-E8R
Riser Card	RSC-R1UFF-E16	8	1U LHS FatTwin Riser Card with PCI-E x16
Heatsink / Retention	SNK-P0047PS	16	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Mounting Rail	MCP-290-41803-0N	1	Fat twin F418 / F424 Rail set support 28-33.5 inch depth rail,RoHS/REACH,PBF

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)