

SuperServer F627R2-RT+



Integrated Board



Super X9DRFR

Available Colors:

Black



Key Features

4 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 sockets
3. 2x PCI-E 3.0 x8 (LP, for 2x AOC in the rear side) + 1x Micro LP
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. 8x 2.5" Hot-swap SAS/SATA + 4x 2.5" Hot-swap SATA HDD Bays
7. SAS2 support via LSI 2208
8. 2x heavy duty internal fans
9. 1280W Redundant Power Supplies Platinum Level (95%)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-F627R2-RT+ ■ SuperServer F627R2-RT+ (Black)

Motherboard

Super X9DRFR

Processor/Cache

CPU ■ Dual Socket R (LGA 2011)
 ■ Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
 (up to 135W TDP *)
 * Please contact your Supermicro sales representative for additional details

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)

■ 16x 240-pin DDR3 DIMM sockets

Chassis

Form Factor ■ 4U Rackmount

Model ■ CSE-F424BC-R1K28B

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 ■ Net Weight: 105 lbs (47.63 kg)
 ■ Gross Weight: 150 lbs (68.04 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

Memory Capacity	<ul style="list-style-type: none"> Up to 1TB DDR3 ECC LRDIMM Up to 512GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
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"> SATA2 (3Gbps) with RAID 0, 1, 5, 10 SATA3 (6Gbps) with RAID 0, 1
SCU SATA	<ul style="list-style-type: none"> SATA2 (3Gbps) with RAID 0, 1, 10
SAS	<ul style="list-style-type: none"> SAS2 via LSI 2208 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 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)

AHCI SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 2x SATA2 (3Gbps) ports
SAS	<ul style="list-style-type: none"> 8x SAS2 (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 2.0 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

Expansion Slots (per node)

PCI-Express	<ul style="list-style-type: none"> 2x PCI-E 3.0 x8 (LP, for 2x AOC in the rear side) + 1 Micro LP MicroLP Adapter Matrix (Networking options)
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Drive Bays (per node)

Hot-swap	<ul style="list-style-type: none"> 8x 2.5" Hot-swap SAS/SATA HDD Bays + 4x 2.5" Hot-swap SATA HDD Bays
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Backplane

1x SAS2 / SATA backplane

System Cooling (per node)

Fans	<ul style="list-style-type: none"> 2x 8cm 11k RPM middle fans
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Power Supply

1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2

AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 12-8A, 50-60Hz 1280W Output @ 180-240V, 8-6A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +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-X9DRFR	4	Super X9DRFR Motherboard
	CSE-F424BC-R1K28B	1	4U Chassis
Backplane	BPN-ADP-S2208L-H8IR-O-P	4	BPN-ADP-S2208L-H8IR-O-P; SAS AOC for FAT TWIN
Backplane	BPN-SAS-F424-B12	4	SAS backplane with 12x 2.5" drive bays for FAT TWIN systems,RoHS/REACH,PBF
Cable 1	CBL-0480L	4	4 pins to 4 pins 40cm PDB to MB power cable HF. 18AWG
Cable 2	CBL-0047L	4	Front ctrl cable 20 PIN TO 20 PIN, PB FREE, 28AWG, 50cm
Cable 3	CBL-0157L-02	4	8 pin to 8 pin ribbon SGPIO cable with tube, 27cm, PBF
Cable 4	CBL-SAST-0546	4	Cross over lpass to 4 SATA w/25cm SB. S/RA. 26/26/42/42cm. 30AWG ,HF,RoHS/REACH,PBF
Cable 5	CBL-0109L-02	4	IPASS TO IPASS 22CM PBF. 26AWG
Cable 6	CBL-0484L	16	55cm 30AWG SATA S-S cable
Riser Card	RSC-R2UF-2E8GR-O-P	4	2U RHS Riser card with 2 PCI-E X8 for FAT TWIN System
Heatsink / Retention	SNK-P0048PS	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0048P	4	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Square ILM MB
Power Supply	PWS-1K28P-SQ	4	1U 1280W, redundant single output power supply
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
Optional kit	MCP-450-00001-0N	4	LSI IBBU09 extension kit (to installed at 2.5" HDD location)
	BTR-0022L-LSI00279	4	LSI00279 IBBU09 BATTERY BKUP FOR SAS2208
Software	SFT-OOB-LIC	4	BIOS management capabilities
Software	SFT-DCMS-Single	-	Remote Management - Datacenter Package