

SuperServer F627R3-F73



Available Colors:

Black



Integrated Board



[Super X9DRFF-7](#)

Key Features

4 Hot-plug System Nodes in 4U Front I/O. Each node supports:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
3. 1 PCI-E 3.0 x16 (LP) via riser card
4. Front I/O ports: 2 GbE LAN, 2 USB 2.0, and 1 VGA connector
5. Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
6. 4x Hot-swap 3.5" SAS/SATA HDDs; SAS2 via LSI 2308
7. 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-F627R3-F73** ■ SuperServer F627R3-F73 (**Black**)

Motherboard

Super X9DRFF-7

Processor/Cache

- CPU**
- Intel® Xeon® processor E5-2600 and E5-2600 v2 family† (up to 135W TDP; 130W TDP up to 47°C *)
 - Dual Socket R (LGA 2011)
- * For details, refer to the user manual

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**
- 8x 240-pin DDR3 DIMM sockets
 - Up to 512GB DDR3 ECC LRDIMM
 - Up to 256GB DDR3 ECC Registered memory (RDIMM)

Chassis

Form Factor ■ 4U Rackmount

Model ■ **CSE-F424AF-R1K28B**

Dimensions

Width ■ 17.63" (448mm)

Height ■ 6.96" (177mm)

Depth ■ 29" (737mm)

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

Expansion Slots (per node)

PCI-Express ■ 1 PCI-E 3.0 x16 (LP) via riser card

Capacity	<ul style="list-style-type: none"> Up to 64GB 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"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
SAS	<ul style="list-style-type: none"> SAS2 via LSI 2308 SW RAID 0, 1, 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® 82574L 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 SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS 2.0 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"> 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

Drive Bays (per node)

Hot-swap	<ul style="list-style-type: none"> 4x 3.5" Hot-swap SAS/SATA HDD trays
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Backplane

1x SAS2 / SATA backplane

System Cooling

Fans	<ul style="list-style-type: none"> 8x 8cm heavy duty fans with air shroud and PWM fan speed control
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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
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DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
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Certification



Platinum Certified
[Test Report]

System BIOS

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

RoHS	<ul style="list-style-type: none"> RoHS Compliant
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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	4	Super X9DRFF-7 Motherboard
	CSE-F424AF-R1K28B	1	4U Chassis
Backplane	BPN-SAS-F424-A4	4	4x 3.5
Cable 1	CBL-0486L	4	2x2 to 2x2 15cm power cable HF. 18AWG
Cable 2	CBL-0157L-02	4	8 pin to 8 pin ribbon SGPIO cable with tube, 27cm, PBF
Cable 3	CBL-0473L	16	21cm 30AWG SATA S-S cable
Riser Card	RSC-R1UFF-E16R-O-P	4	RSC-R1UFF-E16R
Heatsink / Retention	SNK-P0048P	8	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
Software	SFT-OOB-LIC	4	BIOS management capabilities
Software	SFT-DCMS-Single	-	Remote Management - Datacenter Package