

# SuperServer F627R3-F72+



## Integrated Board



Super X9DRFF-7+

Available Colors:

Black



## 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 1TB ECC DDR3, up to 1866MHz; 16x DIMM sockets
3. 1 PCI-E 3.0 x16 (LP), 1 PCI-E 3.0 x8 (LP) and 1 PCI-E 2.0 x4 (LP)
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. 2x 3.5" Hot-swap SAS/SATA HDDs; SAS2 via LSI 2208
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-F72+

- SuperServer F627R3-F72+ (Black)

### Motherboard

#### Super X9DRFF-7+

### 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)

#### Memory Capacity

- 16x 240-pin DDR3 DIMM sockets
- Up to 1TB DDR3 ECC LRDIMM
- Up to 512GB DDR3 ECC Registered memory (RDIMM)

### Chassis

#### Form Factor

- 4U Rackmount

#### Model

- CSE-F424AL-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

### Expansion Slots (per node)

	<ul style="list-style-type: none"> <li>Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)</li> </ul>
<b>Memory Type</b>	<ul style="list-style-type: none"> <li>1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs</li> </ul>
<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>32GB, 16GB, 8GB, 4GB, 2GB, 1GB</li> </ul>
<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.5 V, 1.35 V</li> </ul>
<b>Error Detection</b>	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>

#### On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel® C602 Chipset</li> </ul>
<b>AHCI SATA</b>	<ul style="list-style-type: none"> <li>SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>SATA 3.0 6Gbps with RAID 0, 1</li> </ul>
<b>SAS</b>	<ul style="list-style-type: none"> <li>SAS2 (6Gbps) via LSI 2208</li> <li>HW RAID 0, 1, 5, 6, 10, 50, 60 support</li> </ul>
<b>IPMI</b>	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>Nuvoton WPCM450 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® i350 Dual Port Gigabit Ethernet</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>1x Realtek RTL8201F PHY (dedicated IPMI)</li> </ul>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>Matrox G200eW</li> </ul>

#### Input / Output (per node)

<b>SAS</b>	<ul style="list-style-type: none"> <li>2 SAS2 ports (6Gbps)</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 2.0 ports</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Serial Port / Header</b>	<ul style="list-style-type: none"> <li>1x Fast UART 16550 port</li> </ul>

<b>PCI-Express</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x16 (LP)</li> <li>1 PCI-E 3.0 x8 (LP)</li> <li>1 PCI-E 2.0 x4 (LP)</li> </ul>
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#### Drive Bays (per node)

<b>Hot-swap</b>	<ul style="list-style-type: none"> <li>2x 3.5" Hot-swap SAS/SATA HDD trays</li> </ul>
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#### Backplane

1x SAS2 / SATA backplane

#### System Cooling

<b>Fans</b>	<ul style="list-style-type: none"> <li>8x 8cm heavy duty fans with air shroud and PWM fan speed control</li> </ul>
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#### Power Supply

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

<b>AC Input</b>	<ul style="list-style-type: none"> <li>1000W Output @ 100-140V, 12-8A, 50-60Hz</li> <li>1280W Output @ 180-240V, 8-6A, 50-60Hz</li> </ul>
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<b>DC Output</b>	<ul style="list-style-type: none"> <li>1000W: +12V/83A; +5Vsb/4A</li> <li>1280W: +12V/106.7A, +5Vsb/4A</li> </ul>
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#### Certification



**Platinum Certified**  
[ Test Report ]

#### System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI BIOS</li> </ul>
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<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>PCI 2.2</li> <li>ACPI 1.0 / 2.0</li> <li>USB Keyboard support</li> <li>SMBIOS 2.3</li> <li>UEFI</li> </ul>
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#### Operating Environment / Compliance

<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
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<b>Environmental Spec.</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>
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## Parts List

### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X9DRFF-7+	4	Super X9DRFF-7+ Motherboard
	CSE-F424AL-R1K28B	1	4U Chassis
<b>Backplane</b>	BPN-ADP-F418L-O-P	4	BPN;SASADP;SAS827-H8;H8DTT;cable req
<b>Backplane</b>	BPN-SAS-F424-A2	4	2x 3.5
<b>Cable 1</b>	CBL-0460L-01	4	8 pin Male to two 4 pin Male power cable. 40cm and 45cm. 18AWG
<b>Cable 2</b>	CBL-0473L	8	21cm 30AWG SATA S-S cable
<b>Heatsink / Retention</b>	SNK-P0048PS	8	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
<b>Power Supply</b>	PWS-1K28P-SQ	4	1U 1280W, redundant single output power supply
<b>Mounting Rail</b>	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
<b>SuperCap</b>	BTR-0024LH-LSI00297	4	SuperCap TFM LSICVM01 - LSI00297 to be used with Supermicro AOC-S2208L-H8iR- Halogen Free
<b>SuperCap Bracket</b>	MCP-240-00127-0N	4	LSI SuperCap bracket, include screw, same size as 2.5" HDD
<b>Software</b>	SFT-OOB-LIC	4	BIOS management capabilities
<b>Software</b>	SFT-DCMS-Single	-	Remote Management - Datacenter Package