

SuperStorage Server 2027R-E1R24L

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Integrated Board



Super X9DRD-7LN4F-JBOD

Available Colors:

Black



Key Features

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. 5x PCI-E 3.0 x8 slots (Low-profile)
4. Intel® i350 GbE Controller; 4x ports
5. 24x 2.5" Hot-swap SAS2/SATA3
6. Onboard Broadcom 2308 IT mode
7. Dual JBOD expansion port
8. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
9. 3x Heavy duty PWM fans
10. 920W 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	
SSG-2027R-E1R24L	■ SuperServer 2027R-E1R24L (Black)
Motherboard	
Super X9DRD-7LN4F-JBOD	
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 130W TDP)
Note	† BIOS version 3.0 or above is required
Cache	■ Up to 30MB
System Bus	■ QPI up to 8 GT/s
System Memory	
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 memory (UDIMM)
Memory Type	■ 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	■ 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	■ 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	■ Intel® C602J Chipset
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, 5, 10
SAS	■ SAS2 via Broadcom 2308; IT Mode/Pass-through
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 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	■ Matrox G200eW

Chassis	
Form Factor	■ 2U Rackmount
Model	■ CSE-216BE16-R920LPB
Dimensions	
Width	■ 17.2" (437mm)
Height	■ 3.5" (89mm)
Depth	■ 24.8" (630mm)
Gross Weight	■ 61 lbs (27.7 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 ■ Hard drive activity LED ■ 2x Network activity LEDs ■ System Overheat LED ■ Power fail LED
Expansion Slots	
PCI-Express	■ 5x PCI-E 3.0 x8 slots (Low-profile)
Drive Bays	
Hot-swap	■ 24x Hot-swap 2.5" SAS / SATA HDD trays
Optional OS Drive	■ 2x Rear 2.5" Hot-swap Drive Bays
Backplane	
SAS2 / SATA3 single expander per backplane	
System Cooling	
Fans	■ 3x 8cm 9.5K RPM, 4-pin PWM fans
Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
AC Input	■ 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	<ul style="list-style-type: none"> ■ 4 Amp @ +5V standby ■ 75 Amp @ +12V
Certification	Platinum Certified [Test Report]
System BIOS	
BIOS Type	<ul style="list-style-type: none"> ■ 128Mb SPI Flash EEPROM with AMI BIOS ■ Plug and Play (PnP) ■ APM 1.2 ■ PCI 2.2 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3
BIOS Features	

Serial ATA	<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 SAS2 ports (6Gbps)
LAN	<ul style="list-style-type: none">■ 4x RJ45 Gigabit Ethernet LAN ports■ 1x RJ45 Dedicated IPMI LAN port
JBOD	<ul style="list-style-type: none">■ 2x JBOD Expansion Ports
USB	<ul style="list-style-type: none">■ 9x USB 2.0 ports total (4 rear + 4 via header + 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 Header

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

[See Parts List](#)