

SuperStorage Server 2027R-E1R24N



Rear Hot-Swap Drive Bay not Supported

Available Colors:

Black



Integrated Board



Super X9DRi-LN4F+

Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM sockets
3. 3x PCI-E 3.0 x16 and 1x PCI-E 3.0 x8 slots (Low-profile)
4. Intel® i350 GbE Controller; 4x ports
5. 24x 2.5" Hot-swap SAS2 (with LSI expander) / SATA3 HDD Bays
6. Hardware RAID controller and JBOD Expansion; RAID 0, 1, 5, 6, 10, 50, 60
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 3x Heavy duty PWM fans
9. 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-E1R24N	■ SuperServer 2027R-E1R24N (Black)
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Motherboard

Super X9DRi-LN4F+

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"> ■ 24x 240-pin DDR3 DIMM sockets ■ Up to 1.5TB DDR3 ECC LRDIMM ■ Up to 768GB DDR3 ECC Registered memory (RDIMM) ■ Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM)
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Chassis

Form Factor	■ 2U Rackmount
Model	■ CSE-216E16-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	■ 3x PCI-E 3.0 x16 slots (Low-profile)
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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
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 AOC	<ul style="list-style-type: none"> LSI 2108 SAS2 RAID AOC (BBU optional) Hardware RAID 0, 1, 5, 6, 10, 50, 60
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	<ul style="list-style-type: none"> Matrox G200eW

Input / Output

Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps)
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"> 1x 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

- 1x PCI-E 3.0 x8 slot (Low-profile)

Drive Bays

Hot-swap	<ul style="list-style-type: none"> 24x 2.5" Hot-swap SAS / SATA HDD trays
Optional OS Drive	<ul style="list-style-type: none"> No rear Hot-swap Drive Bay, SATA DOM Recommended

Backplane

SAS2 / SATA3 backplane

System Cooling

Fans	<ul style="list-style-type: none"> 3x 8cm 9.5K RPM, 4-pin PWM fans
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Power Supply with Power Distributor

920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C

AC Input	<ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp
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DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V
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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

- 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
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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-X9DRi-LN4F+	1	Super X9DRi-LN4F+ Motherboard
	CSE-216E16-R920LPB	1	2U Chassis
Backplane	BPN-SAS2-216EL1	1	BPN-SAS2-216EL1
Cable 1	CBL-0168L-LP	1	2 port external IPASS to two internal IPASS 66/61CM, LP, 26AWG
Cable 2	CBL-0421L	1	55CM IPASS TO IPASS PBF. 26AWG
CD	CDR-X9	1	Driver CD for X9 series
Heatsink / Retention	SNK-P0048P	2	2U Passive CPU Heat Sink for X9 Generation Motherboards w/ Square ILM
Air Shroud	MCP-310-29001-0N	1	SC825/826/216/213 Intel DP X9,X8 PC air shroud 1368x13/12x13
Cable 3	CBL-0071L	1	ROUND 16 pin TO 16 PIN RIBBON FP CABLE 30
Cable 4	CBL-0088	3	10.5", 4 PIN MIDDLE FAN POWER EXTENSION (PWM)
Cable 5	CBL-0160L	2	NEMA5-15P to C13 US power cord 16AWG 6ft, PBF (default for high watt)
Cable 6	CBL-0217L	1	16 pin control panel converter cable for SC826,846, 22cm, PBF
Mounting Rails	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2"W
Drive Tray(s)	MCP-220-00047-0B	24	Black Gen 3rd hot-swap 2.5" HDD tray
Add On Card	AOC-SAS2LP-H8iR	1	2108 based SAS/SATA RAID- 8 internal ports/Low profile-PCI-E

Optional Parts List			
	Part Number	Qty	Description
HDD bracket	MCP-220-82611-0N	-	Dual 2.5 fixed HDD tray
BBU (Battery Backup Unit)	BTR-0018L-0000-LSI	-	Battery Backup for SAS 2108 (can be direct attached to card or connect by extension cable use BTR-0018L-Kit)