

SuperStorage Server 2027R-E1CR24N



Rear Hot-Swap Drive Bay not Supported

Integrated Board



Super X9DRi-LN4F+

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 1.5TB ECC DDR3, up to 1866MHz; 24x DIMM slots
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 SAS3/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 8cm high-performance 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-E1CR24N
- SuperServer 2027R-E1CR24N (Black)

Motherboard

Super X9DRi-LN4F+

Processor/Cache

- CPU
- 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
- 24x 240-pin DDR3 DIMM slots
 - Up to 1.5TB DDR3 ECC LRDIMM
 - Up to 768GB DDR3 ECC Registered memory (RDIMM)
 - Up to 192GB DDR3 ECC Un-Buffered memory (UDIMM)

Chassis

- Form Factor
- 2U Rackmount
- Model
- CSE-216BE1C-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
- 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

- 4x PCI-E 3.0 x16 slots

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
SAS3 AOC	<ul style="list-style-type: none"> LSI 3108 SAS3 AOC 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)
SAS	<ul style="list-style-type: none"> 8x SAS3 ports (12Gbps)
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
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

PCI-Express	<ul style="list-style-type: none"> 1x PCI-E 3.0 x8 slot 1x PCI-E 3.0 x8 (in x4) slot Slot 1 & 2 Occupied by Hardware RAID Controller and JBOD Expansion Port
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Drive Bays

Hot-swap	<ul style="list-style-type: none"> 24x 2.5" Hot-swap SAS3/SATA3 HDD bays
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Backplane

SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ 24x SAS3 2.5" drive slots and 4x mini-SAS3 HD connectors for SAS3 uplink/downlink

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
DC Output	<ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V

Certification	  Platinum Certified [Test Report]
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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-X9DRI-LN4F+	1	Super X9DRI-LN4F+ Motherboard
	CSE-216BE1C-R920LPB	1	2U Chassis
Backplane	BPN-SAS3-216EL1	1	SAS3 12Gb/s single expander backplane, with 24x SAS3 2.5" drive slots and 4x HD mini-SAS3 cable connectors for SAS3 uplink/downlink,RoHS/REACH,PBF
Cable 1	CBL-SAST-0532	4	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS/REACH,PBF
CD	CDR-X9	1	Driver CD for X9 series
Heatsink / Retention	SNK-P0048P	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Square ILM MB
Drive Tray(s)	MCP-220-00047-0B	24	Black Gen 3rd hot-swap 2.5" HDD tray
Add On Card	AOC-S3108L-H8IR-O-P	1	SAS-3, GEN-3 RAID card. Supports 12Gbps and RAID 0, 1, 5, 6, 10, 50 and 60. Includes 2GB memory
Add On Module	AOM-SAS3-16I16E-LP	1	16-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket, RoHS/REACH, PBF

Optional Parts List

	Part Number	Qty	Description
Parts for 3108 controller	BTR-TFM8G-LSICVM02	-	SuperCap Module
	BKT-BBU-BRACKET-05	-	Mounting PCIe Card
HDD Bracket	MCP-220-82611-0N	1	Dual 2.5" fixed HDD tray
	CBL-0473L	2	HDD SATA Cable
	CBL-0289L	1	HDD Power Cable