

SuperStorage Server 2027R-AR24NV



Key Features

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and E5-2600 v2 family†
2. Up to 512GB DDR3 1600MHz ECC Registered DIMM and support for NV-DIMM modules; 16x DIMM slots
3. 1 PCI-E 3.0 x16 & 6 PCI-E 3.0 x8 slots
4. Intel® i350 Dual port GbE LAN
5. 24x 2.5" Hot-swap SAS3/SATA3 HDD bays with direct attached backplane (12Gbps per bay)
6. 3x LSI 3008 SAS3 controller in IR mode
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-AR24NV	▪ SuperServer 2027R-AR24NV (Black)
Motherboard	
<u>Super X9DRH-iF-NV</u>	
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	▪ 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)

Chassis	
Form Factor	▪ 2U Rackmount
Model	▪ <u>CSE-216BAC-R920LPB</u>
Dimensions	
Width	▪ 17.2" (437mm)
Height	▪ 3.5" (89mm)
Depth	▪ 25.5" (647.7mm)
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	
PCI-	▪ 1x PCI-E 3.0 x16 slot

Memory Type	<ul style="list-style-type: none"> 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs Support ECC and non-ECC UDIMMs Supports NV-DIMM Modules *
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"> SATA2 (3Gbps) with RAID 0, 1, 5, 10 SATA3 (6Gbps) with RAID 0, 1
SCU SATA	<ul style="list-style-type: none"> SATA2 (3Gbps) with RAID 0, 1, 10
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 Dual Port GbE Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-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

AHCI SATA	<ul style="list-style-type: none"> 2x SATA3 (6Gbps) ports 4x SATA2 (3Gbps) ports
SCU SATA	<ul style="list-style-type: none"> 4x SATA2 (3Gbps) ports
SAS	<ul style="list-style-type: none"> 24x SAS3 (12Gbps) ports
LAN	<ul style="list-style-type: none"> 2x RJ45 GbE ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4x USB 2.0 ports total (4 rear)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x Fast UART 16550 serial COM port (1 rear & 1 header)

Express	6x PCI-E 3.0 x8 slots (slots 1, 2, & 3 are populated by default)
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Drive Bays

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

SAS3/SATA3 Direct Attached Backplane

System Cooling

Fans	<ul style="list-style-type: none"> 3x 80mm 7000 RPM PWM fans
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Power Supply

920W Redundant High-Efficiency Power Supplies w/ Power Distributor, PMBus 1.2, I ² C, and PFC
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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"> +5V standby: 4A +12V: 75A
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With Power Distributor	<ul style="list-style-type: none"> +5V: 45A +3.3V: 24A -12V: 0.6A
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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
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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.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DRH-iF-NV	1	Super X9DRH-iF-NV Motherboard
	CSE-216BAC-R920LPB	1	2U Chassis
Backplane	BPN-SAS3-216A	1	24x 2.5"HDD backplane, support SAS-3 12Gb/s,mini-SAS HD connector,new 29-pin SAS-3 receptacles,support power control stagger spin,pre-charge resistor,fuse protect and SGPIO encl mgmt,RoHS/REACH,PBF
Cable 1	CBL-SAST-0531	4	Internal Mini-SAS HD to Mini-SAS HD 80cm,30AWG,12Gb/s, HF,RoHS/REACH,PBF
Cable 2	CBL-SAST-0532	2	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-P0048PS	1	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Heatsink / Retention	SNK-P0048AP4	1	2U Active CPU Heat Sink for Intel R2/R3/B2/B3 and AMD C32
Power Supply	PWS-920P-SQ	2	920W 1U Redundant PWS W/ Quiet Mode
Add On Card	AOC-S3008L-L8I	3	STD Gen-3 PCI-E ,SAS3 12Gb/s, 8 internal ports, low profile, IR Mode

Optional Parts List

	Part Number	Qty	Description
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

* Note: Only select NV-DIMM modules are currently support, check with your sales representative. This technology requires additional 3rd party software for proper operation.