

SuperStorage Server 2028R-E1CR24N

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Rear Hot-Swap Drive Bay not Supported

Available Colors:

Black



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Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1.5TB ECC DDR4 2133MHz; 24x DIMM slots
3. 2 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 (Slot 3 & 4 occupied by controller and JBOD expansion port)
4. Quad LAN w/ Intel® X540 10GbBase-T
5. 24x 2.5" Hot-swap SAS3/SATA3 drive 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 hot-swap redundant PWM fans
9. 920W Redundant Power Supplies **Platinum Level (94%)**

Integrated Board



[Super X10DRi-T4+](#)

Product SKUs

SSG-2028R-E1CR24N ▪ SuperServer 2028R-E1CR24N (Black)

Motherboard

[Super X10DRi-T4+](#)

Processor/Cache

CPU ▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) *
▪ Dual Socket R3 (LGA 2011)

Cores / Cache ▪ Up to 18 Cores / Up to 45MB Cache

System Bus ▪ QPI up to 9.6 GT/s

Note

* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity ▪ 24x 288-pin DDR4 DIMM slots
▪ Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM

Memory Type ▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit

DIMM Sizes ▪ RDIMM: 32GB, 16GB, 8GB, 4GB
▪ LRDIMM: 64GB, 32GB

Memory Voltage ▪ 1.2 V

Error Detection ▪ Corrects single-bit errors

On-Board Devices

Chipset ▪ Intel® C612 chipset

SATA ▪ SATA3 (6Gbps); RAID 0, 1, 5, 10

SAS3 AOC ▪ LSI 3108 SAS3 AOC
▪ Hardware RAID 0, 1, 5, 6, 10, 50, 60

▪ Support for Intelligent Platform

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

PCI-Express ▪ 2x PCI-E 3.0 x16 slots
▪ 4x PCI-E 3.0 x8 slots
▪ Slot 3 & 4 Occupied by Controller and JBOD Expansion Port

Drive Bays

Hot-swap ▪ 24x 2.5" Hot-swap SAS3/SATA3 HDD bays

Backplane

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

System Cooling

Fans ▪ 3x 8cm 7K RPM, 4-pin PWM fans

IPMI	<ul style="list-style-type: none"> Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® X540 Quad Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Video	<ul style="list-style-type: none"> ASPEED AST2400 BMC
Input / Output	
LAN	<ul style="list-style-type: none"> 4x RJ45 10GBase-T ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 3x USB 3.0 ports (2 rear + 1 Type A) 2x USB 2.0 ports (2 rear)
Video	<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

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]
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

[See Parts List](#)

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