

# Supermicro 12Gbps 2U Storage Server

- 2U rackmount server • Intel® Xeon® E5-2600 v2 processor • Up to 1.5TB DDR3 ECC memory
- 12x 3.5" SAS3/SATA3 HDD bays

Combining performance with a space-efficient design, the Supermicro SDS-6027R-E1CR12N 2U rackmount storage server is the perfect solution for IT professionals who require high I/O storage in data center and enterprise markets. Configured with an Intel® Xeon® E5-2600 v2 series processor and featuring DDR3 ECC memory, enterprise-class SAS3/SATA3 hard drives and quad GbE ports, this latest storage server provides IT professionals with the reliability, performance and cost savings they expect.



## Features

### Intel® Xeon® Processors

The Intel Xeon E5-2600 v2 processor family delivers the scalable performance and reliability needed for a server environment.

### ECC Memory

By correcting 99.9% of memory errors that may occur, ECC memory ensures data safety and keeps systems running.

### SAS3/SATA3 Storage

Enterprise SAS3/SATA3 storage provides the high capacities required for storage demanding applications and are designed for 24x7 environments.

## SPECIFICATION HIGHLIGHTS



### Form Factor

2U Rackmount

### Processor

Intel Xeon E5-2600 v2 series

### Memory

Up to 1.5TB ECC DDR3, up to 1866MHz 24x DIMM sockets

### Storage

12x 3.5" SAS3/SATA3 HDD bays

### Power Supply

920W redundant power supplies

## Contact Information

**Servers Direct** • [www.ServersDirect.com](http://www.ServersDirect.com) • 800-576-7931

**SDS-6027R-E1CR12N  
SPECIFICATIONS**

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**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 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)

Memory Type: 1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Size: 32GB, 16GB, 8GB, 4GB, 2GB, 1GB

Memory Voltage: 1.5V, 1.35V

Error Detection: Corrects single-bit errors | Detects double-bit errors (using ECC memory)

**On-Board Devices**

Chipset: Intel® C602 Chipset

SATA: SATA 2.0 3Gbps with RAID 0, 1, 5, 10 | SATA 3.0 6Gbps with RAID 0, 1, 5, 10

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

IPMI: 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: 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

**Input/Output**

Serial ATA: 2x SATA 3.0 ports (6Gbps) | 8x SATA 2.0 ports (3Gbps)

SAS: 8x SAS3 ports (12Gbps)

LAN: 4x RJ45 Gigabit Ethernet LAN ports | 1x RJ45 Dedicated IPMI LAN port

USB: 9x USB 2.0 ports total

VGA: 1x VGA Port

Serial Port / Header: 1x Fast UART 16550 port / 1 Header

**Chassis**

Form Factor: 2U rackmount

Model: CSE-826BE1C-R920LPB

**Dimensions**

Width: 17.2" (437 mm)

Height: 3.5" (89 mm)

Depth: 25.5" (648 mm)

Weight: 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: 4x PCI-E 3.0 x16 slots | 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

**Drive Bays**

Hot swap: 12x 3.5" Hot-swap SAS3/SATA3 HDD bays w/ SES2

Optional: Internal bracket for 2x 2.5" drives (fixed)

**Backplane**

SAS3 Backplane: SAS3 12Gbps single expander backplane, w/ LSI SAS3x28 expander, support 12x 3.5" drives, with 4x mini-SAS HD connectors, 2 for uplink and another 2 for down link

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**SPECIFICATIONS**

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**System Cooling**

Fans: 3x 8 cm 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: 100-240 V, 50-60 Hz, 11-4.5 Amp

DC Output: 4 Amp @ +5V standby | 75 Amp @ +12V

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**System BIOS**

BIOS Type: 128Mb SPI Flash EEPROM with AMI BIOS

BIOS Features: 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: RoHS Compliant

Environmental Specifications: Operating temperature: 10 to 35 [50°F to 95°F] | Non-operating temperature: -40 to 70 [-40°F to 158°F] | Operating Relative Humidity: 8% to 90% [non-condensing] | Non-operating relative humidity: 5% to 95% [non-condensing]

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