

NS-RS3160SA

Direct Attached SATA Storage System



Overview

The NS-RS3160SA represents the pinnacle of hybrid Serial ATA technology. NS-RS3160SA opens the door to the world of high performance computing by integrating emerging SATA technologies with next generation interface connectivity. Specifically designed to address the challenges of high impact/high volume storage requirements, NS-RS3160SA yields superior performance that offers a new level of application possibilities. NS-RS3160SA continues the Network Synthesis tradition by delivering a solution that raises the bar in reliability, functionality and affordability.

Professional Grade Performance

With two Ultra320 SCSI channels or two 2Gb SFP Fibre ports, the NS-RS3160SA provides increased reliability and functionality critical to a company's IT infrastructure. NS-RS3160SA includes a cutting edge 64-bit RAID architecture which maximizes the Serial ATA disk throughput potential. Making the system an ideal solution for professional storage applications such as Disk-to-disk backup, image processing, nearline storage, data centers, database servers, media & asset management libraries and shared SAN networks.

High Data Availability

The NS-RS3160SA offers a wide range of RAID settings including 0, 1 (0+1), 3, 5, 30, 50 and JBOD. Support for multiple array configurations are included to allow added flexibility ensuring your investment will be in use years down the line. Drive failure detection, automatic drive rebuild, hot spare assignment and background rebuild, make it possible for users to monitor and address system conditions. Dynamic On-line RAID expansion allows additional capacity to be added without total system downtime, adding piece of mind knowing your data is protected at all time.

Features

- ▶ 3U, 16 SATA disk external storage
- ▶ Multiple RAID configuration options
- ▶ Complete system & volume management
- ▶ Powerful 64-bit hardware architecture
- ▶ Supports over 4TB of RAID storage
- ▶ SATA to SCSI or Fibre connectivity
- ▶ Hot swappable components
- ▶ Securecontrol panel with backlit LCD
- ▶ Cost effective storage solutions

Storage Management

The NS-RS3160SA can be completely configured in minutes using the secure front control panel, or through a standard NS-RS232 interface that allows administrators to configure then password protect to eliminate potential security risks. As a benefit the NS-RS3160SA offers an optional management software that includes the essential tools required to manage and monitor your NS-RS3160SA.

Controls & Indicators

A comprehensive LCD control panel facilitates the setup process and lets users reconfigure the system as their needs change. LED based indicators provide easy visual monitoring and system status at a glance. The NS-RS3160SA also provides an audible alarm in the event of a component failure.

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NS-RS3160SA

Direct Attached SATA Storage System

Form Factor

- 3U low profile 19" rackmount
- 16 SATA / Serial ATA disk drive bays

System Architecture

- SATA-to-Ultra320 SCSI (Ultra160 support)
- SATA-to-2Gb Fibre Channel (1G copper support)

Interface Configuration

- Dual channel (4) HD68 pin SCSI connectors
- 2 dual loop LC SFP connectors, Optical ready

Disk Drive Interface

- HDD: SATA/Serial ATA
- Form factor: Low profile 1" SATA disks
- RPM: 7200-10,000

Controller Architecture

- 64-bit dedicated RAID processor
- Dual PCI bus architecture
- 64-bit 133MHz PCI-X bridge
- 128MB cache (upgradable to 1G)
- Upgradable firmware in flash ROM

Controls and Indicators

- Backlit front secured LCD control panel
- Power and drive failure indicators
- Built-in alarm with mute button
- Optional battery backup module

RAID Operation

- RAID level 0 (0+1), 3, 5 and JBOD
- Multiple array support (up to 8 separate arrays)
- Hot-swap drive support
- Hot spare drive support
- Online capacity expansion

Management

- User configurable via control panel
- Management UI Software
- NS-RS232 VT100 ANSI terminal emulation
- In-band monitoring and fault notification to fax / pager /email.

Dimensions

- Length: 22.87"
- Width: 17.5" w/o rack ears (19" with rack ears)
- Height: 5.25" (3 RU)

Weight

- 56.2 lbs without drives (73 lbs with drives)

Power Supply

- 3x300W autosensing redundant power supply
- Three removable (triple input) industrial grade modules
- AC input: 100 ~ 240 VAC, 46Hz ~ 63Hz
- Continuous output power: 600W

Notification / Alarm

- Email, fax, and paging features
- SNMP trap (remote notification)
- Internal buzzer alarm

Certifications

- FCC Class A
- UL1950
- CSA #950
- TUV / EN60950

Compliance (EMC)

- 89/336/EEC EMC Directive

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