

ULTRASTOR™ RS16 SS

Enterprise RAID Storage System

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Overview

Enhance Technology's new performance driven UltraStor RS16 SS enterprise SAS RAID system delivers over 800MB/sec enough to meet the requirement of data/transaction intensive applications. The ULTRASTOR™ RS16 SS offers enterprise-grade fault tolerance solution and improved performance for applications that demand nothing short of superior reliability. It is specially designed to accept both high reliability SAS and high capacity SATA disks, and is capable of dynamic storage expansion through the new RS16 JS JBOD storage systems. Designed to meet the challenge of high impact/high volume network storage requirements, the new ULTRASTOR™RS16 SS can be configured in minutes and is becoming the new standard for simplified SAN storage.

Enterprise Feature and Performance

Featuring two SAS ports and one SAS expandable port, the RS16 SS runs times faster than a NAS system and provides versatility critical to a company's IT infrastructure. ULTRASTOR™RS16 SS is powered by a cutting edge 64-bit RAID engine, up to 1GB cache, and 3.0 Gbp/s SATA II disks or 15K RPM SAS disks, which maximizes disk performance (up to 800MB/s) allowing for a broader range of storage possibilities. Built-in enterprise feature such as Snapshot, providing point-in-time recovery that safeguard accidental deletion, makes the new ULTRASTOR™RS16 SS an ideal solution for server storage such as Microsoft Exchange & SQL Server, as well as professional storage applications such as Disk-to-disk backup, database pools, image acquisition, near line storage, data centers, media & asset management libraries and shared SAN networks. Dynamic on-line RAID expansion allows additional capacity to be added without total system downtime, increasing your department's productivity.

UltraStor Storage Expansion

By fully integrating advanced RAID controllers with environmental monitoring, the 3U 16-drive UltraStor RS16SS primary RAID unit allows dynamic RAID expansion to an optional secondary JBOD unit, the RS16 JS, through an embedded Mini-SAS expansion port. The embedded expansion port on the advanced UltraStor models helps reduce your total cost of ownership and protects your investment.

Features

- 3U, 16 SAS/SATA disks external storage
- Multiple RAID configuration options
- Embedded hardware RAID controller
- One logical volume shared by as many as 16 hosts
- Windows MPIO support
- Hot swappable components
- Secure control panel with backlit LCD
- Host access control & CHAP

High Data Availability

The RS16 SS offers a wide range of RAID settings including 0, 1 (0+1), 3, 5, 6, 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.

Storage Management

The RS16 SS system is unparalleled in its simplicity, ease of use, installation, and storage management. Our user friendly Web Graphical User Interface allows one to deploy and manage the disk array from virtually anywhere in the world with simple internet access, no additional management software ever needed. With the "Quick Install" wizard, the storage administrator can get the system up and running in a few minutes; and setting up RAID level, volume, cache, etc. can all be done and monitored through the Web GUI.



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Form Factor

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

System Architecture

- SAS-to-SAS (Serial Attached SCSI)
- Dual channel (2) SAS ports
- Single channel (1) SAS expandable port

Disk Drive Interface

- HDD SATA/SAS 1.5Gb/s or 3.0Gb/s
- Form Factor 3.5" SATA/SAS disks
- RPM 7,200 / 10,000 / 15,000
- Max. Capacity Up to 24TB RAW (1.5TB HDD x 16)

Controller Architecture

- Dedicated RAID processor
- Dual PCI bus architecture
- 64-bit 133MHz PCI-X bridge
- 1GB cache
- Upgradeable firmware in flash ROM

Controls and Indicators

- Backlit LCD control panel
- Power and drive failure indicators
- Built-in alarm with mute button

RAID Operation

- RAID level 0 (0+1), 3, 5, 6 and JBOD
- Multiple array support (up to 8 separate arrays)
- Hot-swap drive support
- Hot/global spare drive support
- Online capacity expansion

Management

- User configurable via control panel
- Web browser remote management
- RS232 VT100 ANSI terminal emulation
- Event & fault notification to e-mail

Enclosure Specification

- Hot-Swappability 16 x Removable HDD Tray
- Drive Failure 16 x LED Indicator for each HDD
- System Fan 2 hot-swappable blowers
- Status LEDs 1 x access LED for each HDD
- Fan-fail LED 1 x fan-fail LED for system
- Mute Button 1 x mute button for fan & temp alarm
- Power Supply 1+1 Hot-swap Redundant (2x460Watt)
- Dimension (H x W x D) 5.25" x 19" x 21.5"
- Weight (without disk) 60 Lbs

Physical & Environment

- Temperature built in thermal & fan sensor
- Operating Temperature 10°C ~ 35°C
- Non-Operating Temperature -10°C ~ 50°C
- Operating Humidity 20% to 90% non-condensing

Supported Operating System

- Windows 98, ME, 2000, XP, 2003, Vista, 2008
- Mac 9.X, 10.X
- Red Hat Enterprise Linux 5
- VMware ESX 3.5

Power Supply

- Dual redundant removable power modules
- 1+1 hot swappable
- AC input: 90 ~ 264 VAC, 47Hz ~ 63Hz
- Continuous output power: 460W

Cooling

- Three hot swappable fan modules
- DNI BFB0712H brushless blowers
- 12V DC, 0.36A, 3-pin connector

Manufacturer Warranty

- 3-year warranty
- Advanced Replacement 30 days

For more information please

Contact us at: info@enhance-tech.com

