

# ULTRASTOR™ RS8 SS

Scalable & Expandable SAS Solution

[www.enhance-tech.com](http://www.enhance-tech.com)



## Overview

Enhance Technology's new performance driven UltraStor RS8 SS scalable & expandable SAS RAID system delivers over 800MB/sec enough to meet the requirement of data/transaction intensive applications. The ULTRASTOR™ RS8 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, RS 8 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 RS8 SS runs times faster than a SCSI system and provides versatility critical to a company's IT infrastructure. ULTRASTOR™ RS8 SS is powered by a cutting edge 64-bit RAID engine, up to 2GB 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™ RS8 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 2U 8-drive ULTRASTOR™ RS8 SS 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

- 2U, 8 SAS/SATA disks external storage
- Multiple RAID configuration options
- Embedded hardware RAID controller
- Powerful 64-bit hardware architecture
- One logical volume shared by as many as 16 hosts
- Up to 4 RS16 JS for capacity expansion
- Hot swappable components
- Secure control panel with backlit LCD
- Host access control & CHAP

## High Data Availability

The RS8 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 RS8 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.



## Form Factor

- 2U low profile 19" rackmount
- 8 SAS/SATA disk drive bays

## System Architecture

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

## Disk Drive Interface

- HDD: SAS (Serial Attached SCSI)  
SATA (Serial ATA 1.5Gb/s or 3Gb/s)
- RPM: 7200-10,000 for SATA disk, 15k for SAS disk

## Controller Architecture

- Dedicated RAID processor
- Dual PCI bus architecture
- 64-bit 133MHz PCI-X bridge
- 1GB cache (upgradeable to 2GB)
- 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** 8 x Removable HDD Tray
- **Drive Failure** 8 x LED Indicator for each HDD
- **System Fan** 3 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
- **Dimension (H x W x D)** 3.5" x 17" x 20.5"
- **Weight (without disk)** 45 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 98/98SE, 2000, XP, 2003, Vista, 2008
- Mac 9.1 and above
- Linux (all latest builds)
- And all other systems

## Power Supply

- Dual redundant removable power modules
- 1+1 hot swappable
- AC input: 90 ~ 264 VAC, 47Hz ~ 63Hz
- Continuous output power: 300W

## Cooling

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

## Manufacturer Warranty

- **System Warranty** 3 years limited warranty
- **Certification** FCC, CE, UL, TUV, BSMI, VCCI

For more information please

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