

ULTRASTOR™ RS8 IP

Intelligent iSCSI RAID Storage System

www.real-storage.com



Overview

The RS8 IP, intelligent iSCSI RAID System, is the latest addition to the award-winning ULTRASTOR family with a built-in 64-bit RAID controller for mission critical applications. Utilizing the cost-effective 3Gbps Serial ATA disks, the ULTRASTOR™ RS8 IP offers Enterprise-grade solution for applications that demand nothing short of superior reliability. Designed to meet the challenge of high impact/high volume network storage requirements, the new ULTRASTOR™ RS8 IP can be configured in minutes and is becoming the new standard for simplified SAN storage. With hundreds of installations worldwide Enhance Technology's ULTRASTOR™ product line has built a solid reputation in markets spanning from video broadcasting to emerging disk based backup & recovery infrastructures.

Enterprise Feature and Performance

Featuring two GbE ports (iSCSI), the RS8 IP runs 10 times faster than a NAS system and provides versatility critical to a company's IT infrastructure. ULTRASTOR™ RS8 IP is powered by a cutting edge 64-bit RAID engine, up to 1GB cache, and 3.0 Gbp/s disks, which maximizes disk performance (110MB/s single channel) 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 IP 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.

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 RS8 also provides an audible alarm in the event of a component failure.

Features

- 2U, 8 SATA disks external storage
- Multiple RAID configuration options
- Embedded hardware RAID controller
- 2 GbE full iSCSI offload with load-balancing & fail-over
- One logic volume shared by as many as 16 hosts
- Windows VDS/VSS/MPIO support
- Hot swappable components
- Secure control panel with backlit LCD
- Host access control & CHAP

High Data Availability

The RS8 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 times.

Storage Management

The RS8 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.

ULTRASTOR™ RS8 IP

Intelligent iSCSI RAID Storage System

Form Factor

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

System Architecture

- SATA-to-GbE (10/100 Ethernet support)
- Dual channel (2) GbE ports

Disk Drive Interface

- HDD: SATA/Serial ATA 1.5Gb/s or 3Gb/s
- Form factor: Low profile 1" SATA disks
- RPM: 7200-10,000

Controller Architecture

- Dedicated RAID processor
- Dual PCI bus architecture
- 64-bit 133MHz PCI-X bridge
- 512MB cache (upgradeable to 2G)
- Upgradeable firmware in flash ROM

Controls and Indicators

- Backlit 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, 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
- **Power Supply** 1+1 Hot-swap Redundant (2x300Watt)
- **Dimension (H x W x D)** 3.5" x 19" x 19.5"
- **Weight (without disk)** 50 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 95, 98/98SE, NT, 2000, Millennium, XP, 2003
- Mac 9.1 and above with ATTO iSCSI initiator
- Linux (all latest builds) which support iSCSI initiator
- And all other systems supporting iSCSI protocol

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
- **Advanced Replacement** 90 Days
- **Certification** FCC, CE, UL, TUV, BSMI, VCCI

www.real-storage.com

sales@real-storage.com