

# EnhanceRAID™ R8 IP

The iSCSI-to-SATA RAID Storage System

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



## Product Overview

The EnhanceRAID™ R8 IP is a 2U rackmount storage appliance with built-in OS transparent RAID engine. It comes with a hardware RAID engine that wraps Eight (8) SATA disks into one RAID (0, 1, 3, 5, 6) protected volume, while connecting to the dual iSCSI ports. The EnhanceRAID™ R8 IP provides the fastest, simplest, safest way to share protected data between desktops, networks and work groups. 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 SAN storage.

## Easy Management

EnhanceRAID™ R8 IP is unparalleled in its simplicity, easy 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 can all be done and monitored through the Web GUI.

## High Data Availability

The R8 IP 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.

## Ideal Application

- For JBOD or RAID
- Email Archives
- Data Protection
- Digital Surveillance (Security)
- Digital Audio Recording
- Desktop Publishing
- Video Editing (DV, SD, HD)
- iSCSI SAN

## RAID Management

- Support RAID levels 0, 1, 0+1, 3, 5, 6, and JBOD
- Support on-line volume expansion
- Support dedicated hot spare disk
- Support multiple RAID volumes
- S.M.A.R.T. enabled

## System Features

- **Hardware RAID** Intel 80331 500Mhz 64bit RISC Processor
- **Housing** Compact 2U rackmount enclosure design
- **Host Bandwidth** iSCSI at 80MB/s transfer rate per channel
- **Disk I/O** support 8+ Serial ATA 3.0 Gbps (SATA II) HDDs
- **2 GbE** full iSCSI offload with load-balancing & fail-over
- **Disk Compatibility** SATA 1.5 Gbps & 3.0 Gbps SATA Disks
- **Hot-Swappability** 8+ removable drive tray design
- **Thermal** built-in terminal and fan sensor for protection
- **Cooling** aluminum enclosure & dynamic venting design
- **RAID Setup** thru easy WebGUI
- **Event Notification** thru SNMP
- **Storage Capacity** up to 6.0 TB (Eight 750GB HDD)

# EnhanceRAID™ R8 IP

The iSCSI-to-SATA RAID Storage System

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

## Model Specifications

- **SATA-to-GbE** 10/100 Ethernet support
- **Dual channel** 2 GbE iSCSI ports
- **Storage Processor** Intel IOP80331 500Mhz
- **Hybrid Technology** iSCSI-to-SATA
- **Supported RAID Levels** 0, 1, 0+1, 3, 5, & JBOD
- **Memory** 256MB~1GB Available; 2GB Supported
- **Max. HDD Supported** 8 SATA I/II HDDs
- **Max. HDD Capacity** 750GB as of Dec 2006
- **Max. System Capacity** Up to 6.0TB as of Dec 2006
- **Host Connection** 2 x iSCSI Port
- **Remote management** thru 1-Ethernet Port
- **RAID management** Web browser & SNMP
- **OS Independent & Transparent** Yes

## Enclosure Specification

- **Hot-Swappability** 8 x Removable HDD Tray
- **Drive Failure** 1 LED indicator for each HDD
- **System Fan** 3 x 8cm Hot-Swappable fan
- **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 x 250 Watt
- **Dimensions(H x W x D)** 3.5 " x 17 " x 21.25"
- **Weight (without disk)** 40 Lbs

## Physical & Environment

- **Operating Temperature** 10°C ~ 35°C
- **Non-Operating Temperature** -10°C ~ 50°C
- **Relative Humidity** 5% to 95% non-condensing

## Optional Features

- Battery Backup
- Hot-Swappable Redundant Power Supply (2x460 Watt)

## Supported Operating System

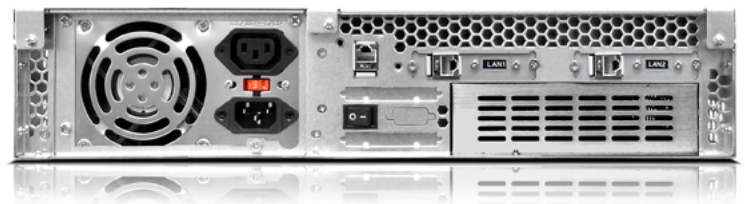
- Windows 95, 98/98SE, NT, 2000, Millennium, XP, 2003
- Mac 9.1 and above with ATTO iSCSI initiator
- Linux (all latest builds) which support iSCSI initiator
- And all other systems supporting iSCSI protocol

## Power Supply (250Watt)

- **Input Range** 110 to 240 VAC. 10%
- **Voltage** +5V/25A +12V/10A 47-63Hz

## Manufacturer Warranty

- **System Warranty** 2 years
- **Advanced Replacement** 30 Days



To find an authorized dealer  
Contact us at: [info@enhance-tech.com](mailto:info@enhance-tech.com)

**Enhance Technology, Inc. Santa Fe Springs, CA 90670**

**Tel:** 1-562-777-3488 **Fax:** 1-562-777-3499

**Email:** [sales@enhance-tech.com](mailto:sales@enhance-tech.com) **Web:** [www.enhance-tech.com](http://www.enhance-tech.com)

