

EnhanceRAID™ R4 XP1000

Expandable iSCSI RAID Storage

www.enhance-tech.com



Product Overview

The advanced R4 XP1000 model, a 1U 4-disk RAID engine embedded SCSI rackmount storage system product line, developed for OEM, VAR, & storage solution providers for daily Disk-to-Disk (D2D) backup, video editing, e-mail archive, etc. The EnhanceRAID™ R4 XP1000 Series features a next generation 64-bit Scale storage processor capable of sustaining data rates over 240MB/Sec, and offers a cutting edge "web-based" user interface which provides complete storage control over a standard web browser.

Expandable Storage

The EnhanceRAID R4 XP1000 model features MultiLink™ I/O technology which two additional Multi-lane channels optioned for daisy-chaining another R4 ML disk array system for storage expansion in addition to the build in four (4) Serial ATA I/II disks supported. EnhanceRAID systems provide a host of RAID advanced functions, empowering users with capabilities normally found in enterprise-class storage systems.

High Data Availability

The R4 XP1000 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)

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 1U rackmount enclosure design
- **Host Bandwidth** SCSI over 240MB/s transfer rate
- **Disk I/O** support 4+ Serial ATA 3.0 Gbps (SATA II) HDDs
- **Expandable Ports** Single Multi-lane (ML) for storage expand
- **Disk Compatibility** SATA 1.5 Gbps & 3.0 Gbps SATA Disks
- **Hot-Swappability** 4 + 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 4.0 TB (Four 1TB HDD)

Expandable to 8TB



EnhanceRAID™ R4 XP1000

Expandable iSCSI RAID Storage

www.enhance-tech.com

Model Specifications

- **SATA-to-SCSI** U320 SCSI support
- **Single channel** Single U320 SCSI channel
- **Storage Processor** Intel IOP80331 500Mhz
- **Hybrid Technology** U320 SCSI-to-SATA
- **Supported RAID Levels** 0, 1, 0+1, 3, 5, 6 & JBOD
- **Memory** 256MB~1GB Available; 2GB Supported
- **Max. HDD Supported** 4 x SATA I/II HDDs
- **Max. HDD Capacity** 1TB as of Sep 2007
- **Max. System Capacity** Up to 8.0TB with expansion
- **Host Connection** 2 x SCSI Ports
- **Expand Connection** 1 x Multilane (ML) Port
- **Remote management** thru 1-Ethernet Port
- **RAID management** Web browser & SNMP
- **OS Independent & Transparent** Yes

Enclosure Specification

- **Hot-Swappability** 4 x Removable HDD Tray
- **Drive Failure** 1 LED indicator for each HDD
- **System Fan** 4 x 4cm system cooling fans
- **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 150 Watt
- **Dimensions(H x W x D)** 1.75 " x 17 " x 21.25"
- **Weight (without disk)** 30 Lbs

Physical & Environment

- **Operating Temperature** 10°C ~ 35°C
- **Non-Operating Temperature** -10°C ~ 50°C
- **Relative Humidity** 5% to 95% 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 (150Watt)

- **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

Enhance Technology, Inc. Santa Fe Springs, CA 90670

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

Email: sales@enhance-tech.com **Web:** www.enhance-tech.com

