

RS2080 World Class ATA RAID Storage



Product Overview

The RS2080 is an award winning ATA based RAID storage system designed to deliver unsurpassed performance and offer Enterprise class features affordably. The RS2080 is a part of the next generation in direct attached and shared storage solutions available in Fibre Channel to ATA and SCSI to ATA configurations. Every RS2080 features a custom ASIC optimized to ensure performance and maximize data throughput. Active components are hot swappable for easy maintenance and field replacement. The RS2080 is capable of supporting data intensive applications such as non-linear editing, multi-track audio, video streaming, and surveillance DVR.

Major Features

- 64-bit PowerPC® based architecture
- 2U, 8 drive low profile rack mount form factor
- ATA133/100 disk interface
- Supports RAID levels: 0, 1 (0+1), 3, 5
- Ultra160 SCSI or Fibre Channel host interface
- Online hot spare with global assignment
- Hot-swap components for easy maintenance
- Comprehensive environmental monitoring

Power and Performance

The RS2080 series features a 64-bit PowerPC microprocessor with embedded 32KB/32KB I/D cache and 256KB L2 cache. Our dual channel models are built with a custom ASIC dual system bus architecture with a dedicated XOR engine that has 128MB of SODIMM (upgradeable to 1GB) and two Ultra-160 SCSI channels that support up to 8 ATA hard drives. The RS2080 delivers amazing transfer rates exceeding 210MB/sec.

High Data Availability

The RS2080 offers multiple RAID level settings including levels 0, 1 (0+1), 3, and 5. Automatic drive failure detection, automatic drive rebuild, hot spare, and background rebuild make it possible for users to retrieve and write data at all times. The RS2080 also gives users the piece of mind that they will never lose data due to bad blocks. If bad blocks are encountered during the data rebuild process LBA (Logical Block Addressing) will be initiated and the rebuild process will continue with unaffected sectors. The RS2080 also features Dynamic On-Line RAID Expansion where additional capacity can easily be added without system downtime.

- Automatic drive failure detection
- Automatic drive rebuild
- Background rebuild
- Dynamic RAID Expansion
- Dual host interface available
- Upgradeable firmware in flash ROM
- Upgradeable cache
- Transfer Rates Up to 210MB/sec



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Storage Management

The RS2080 can be configured and managed in many ways; including, full front panel management, inband management software for Windows, embedded management via RS232C, and through RAIDGuide a java based interface. Environmental monitoring drive status and integrity, fan speed and adjustment, temperature of back plane and CPU, and power supply voltages are constantly monitored and reported via event notification. Event notification can be conducted by Email, fax, pager, and other broadcast features; including, SNMP trap (remote notification)

Detail Specifications

Controls and Indicators

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

Notification / Alarm

- Email, fax, pager, and broadcast features
- SNMP trap (remote notification)
- Internal buzzer

Power Supply

- Dual redundant removable power modules
- AC input: 90 ~ 264 VAC, 47 Hz ~ 63 Hz, 5.0A
- Continuous output power: 300W

Cooling

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

Dimensions

- Length: 19.5"
- Width: 16.75" w/o rack ears (19" with rack ears)
- Height: 3.5" (2 RU)
- 35 lbs without drives (60 lbs with drives)

Certifications

- FCC, UL, VCCI, BSMI, CE, TUV

Model Specifications

RS2080-100U

RS2080-100F

ATA133/100 to U160 SCSI, Single HD68-Pin
ATA133/100 to 1G Fibre Channel, Single DB9 Copper
PowerPC® 603e, 100 MHz processor, single Ultra160 SCSI ports

RS2080-233UD

RS2080-233FD

ATA133/100 to U160 SCSI, Dual HD68-Pin
ATA133/100 to 1G Fibre Channel, Dual DB9 Copper
PowerPC® 750, 233 MHz processor, dual Ultra160 SCSI ports

RS2080-400UD

RS2080-400FD

ATA133/100 to U160 SCSI, Dual HD68-Pin
ATA133/100 to 1G Fibre Channel, Dual DB9 Copper
PowerPC® 750CXe, 400 MHz processor, dual Ultra160 SCSI ports

