



RocketRAID 2600 SAS/SATA RAID Value Series

“Going Green Makes Sense”

Low Cost / High Performing SAS RAID 5 HBA

Highlights

- Up to **561MB/s** read and **654MB/s** write
- Flexible SAS/SATA Hard Drive Support
- Port Configuration Flexibility Options
 - 8 internal
 - 4 internal / 4 external
 - 4 internal
 - 4 external
 - 2 internal / 2 external
- Up to 128 (SAS/SATA) devices via SAS Expander
- PCI-Express x4 bus technology for fast data transfers
- RAID levels 0, 1, 5, 10, 50 and JBOD
- TerabyteGuard™ - A selection of security features designed to maintain RAID integrity via routine inspection of storage hardware for defects by wear and tear.
- HighPoint RAID Management Suite (HRM Suite) to manage, monitor and configure RAID arrays
- OS support (Windows, Linux, FreeBSD and Mac OS X) with WHQL Certification for Windows Vista 32 and 64 bit

The new SAS RAID controller series will infuse systems with a new level of flexibility, performance and reliability at an affordable price.

RocketRAID 2600 Value Series - Low Cost, Performance, Versatility

The RocketRAID 2600 series is a low cost, high performing RAID 5 SAS/SATA controller that can sustain up to 561MB/s read and 654MB/s write. These controllers are ideal for mid- to low-end server and workstation environments where high performance and reliable data protection are required.

Customers can choose from a comprehensive selection of port configurations with small footprint designs including 4 internal, 8 internal, 4 external, and external / 2 internal PCI-Express controllers. Compatibility with industry standard SAS expanders offer maximum scalability support up to 128 SAS/SATA devices. This series includes a robust data protection suite designed to maximize storage reliability.

Flexibility of SAS/SATA

The RocketRAID 2600 series offers the flexibility to be able to support either 15,000 RPM SAS hard drives for performance or low cost SATA hard drives for capacity. The ability to deploy either type of drives allows computer systems to be optimized for specific applications and cost requirements.

Disk with SAS interfaces are designed to meet the performance and reliability characteristics required for RAID systems. SAS drives retain all of the reliability and performance advantages of traditional SCSI and while eliminating the weaknesses of the parallel interface.

Maintain, Contingency, Monitoring

SMB (Small to Medium Size Business) need to have their data accessible at all times. Such requirements place a great importance on storage reliability. Continuous usage and wear and tear post a persistent threat to the long term reliability of data storage. Basic RAID functions do not provide adequate protection against storage failures.

HighPoint TerabyteGuard is an intuitive storage guardian that delivers a distinctive set of benefits which carry out the process of recovery transparent to the user. A proactive system prompts the user during emergencies and provides a history of storage events. SMB's can enjoy maximized storage availability and minimized storage downtime.

HighPoint TerabyteGuard™



APPLICATIONS FOR HIGHPOINT SAS RAID CONTROLLERS



Servers



Security/
Surveillance



Video
Editing



Super
Computing



NAS



Video
On-Demand



Pro
Audio



Disk-to-Disk
Backup

RocketRAID 2600 Series

Host Adapter Architecture

- PCI-Express (x1 and x4)
- 4 internal, 8 internal, 4 external, 2 internal + 2 external (SAS/SATA) Ports
- 4 to 8 SAS and / or SATA hard drive support
- SAS Connectivity Expandable to 128 SAS / SATA via Expanders
- Low Profile

Supported RAID Features

- Bootable RAID Support
- RAID Levels 0, 1, 5, 10, 50 and JBOD
- Multiple arrays per disk
- Online Array Roaming
- Automatic RAID Rebuild (Spare / New Inserted Hard Drive)
- Automatic Drive Detection (Hot Plug)
- Quick, Background, Foreground Initialization
- Online Capacity Expansion / Online RAID Level Migration
- Hot Spare - (Global)
- Staggered Drive Spin-up
- Bad Sector Repair and Remapping
- Spin down idle mode
- NCQ (Native Command Queuing)
- Flashable BIOS Support (OS and MS-DOS)
- SHI (Storage Health Inspector) - Hard Drive Status

HighPoint RAID Management (HRM) Suite

- Web GUI management utility
- CLI (Command Line Interface)
- BIOS Management

Alerts and Indicators

- SMTP Email Notification
- Hard drive activity and failure LED
- SAF-TE chassis environment monitoring
- Alarm / Buzzer

Operating System Support

- Microsoft® Windows 7
- Microsoft® Windows® 2008/2003/XP/2000, Vista 32 and 64 bit WHQL Certified Windows (Vista 32 and 64bit)
- Red Hat Enterprise Linux, Open SuSE, Fedora Core, Debian, Ubuntu
- FreeBSD 4.3 and above
- Mac OS X 10.4.x
- Linux Open Source Drivers (kernel version 2.4 and 2.6)

Package Contents

- RocketRAID 2600 Series SAS RAID Controller
- RocketRAID 2600 SAS Host Adapter User's Guide
- Low profile bracket
- Software CD with (Drivers and Manual)
- Cables (Point to point) and internal mini-SAS

Warranty

- 3 Years

Specifications

- RocketRAID 2684 (79.3mm x 67.0mm) 3.12"L x 2.64"W
- RocketRAID 2680 (79.3mm x 65.0mm) 3.12"L x 2.55"W
- RocketRAID 2644X4 (87.8mm x 64.3mm) 3.45"L x 2.53W
- RocketRAID 2642 (79.4mm x 67.5mm) 3.12"L x 2.65W
- RocketRAID 2640X4 (87.8mm x 64.3mm) 3.45"L x 2.53W
- RocketRAID 2640X1 (87.8mm x 64.3mm) 3.45"L x 2.53W

Operating Temperature

(Work Temp +5° C ~+ 55° C)
 (Relative Humidity 5% ~ 60% non condensing)
 (Storage Temp ~20 ~ 80° C)

Operating Voltage

PCI-e: 3.3V / Power: 5W

Regulatory Certification

FCC and CE

MTBF (Mean Time Between Failure)

920,585 Hours

RocketRAID 2600 Series Selection Guide

	RocketRAID 2684	RocketRAID 2680	RocketRAID 2644x4	RocketRAID 2642	RocketRAID 2640X4	RocketRAID 2640x1
Port Count	8	8	4	4	4	4
PCI Express Lanes	x4	x4	x4	x4	x4	x1
RAID Levels	0,1,5,10, 50 and JBOD	0,1,5,10, 50 and JBOD	0,1,5,10 and JBOD	0,1,5,10,and JBOD	0,1,5,10 and JBOD	0,1,5,10 and JBOD
Connector Type	Internal/External mini-SAS	Internal mini-SAS	External mini-SAS	Internal & External SAS/SATA	Internal SAS/SATA	Internal SAS/SATA
UPC Code	643653268405	643653268009	643653264407	643653264209	643653264049	643653264018



www.highpoint-tech.com
 www.hptmac.com

Sales Offices for HighPoint Products:

- HighPoint USA**
Phone: +1-408-942-5800
- HighPoint Taiwan**
Phone: +886-2-2218-3435
- HighPoint China**
Phone: +86-10-6213-0920