

# RocketRAID 2642

## 4 Channel PCI-Express x4 SAS RAID Controller



### Host Adapter Architecture

- PCI-Express x4
- 2 Internal SATA Connectors & 2 external SATA Connectors
- Support up to 4 SAS/SATA Drives
- NCQ (Native Command Queuing)
- Low Profile
- RoHS compliant

### Advance RAID Features

- Support RAID 0,1,5,10 and JBOD
- Multiple RAID support
- Multiple logical drive support
- BIOS booting support
- Online Array roaming
- Automatic drive (insert / remove) detection
- Automatic RAID rebuild
- 64bit LBA support greater than 2TB per volume

### Array Monitors, Alerts and Indicators

- Hard Drive LED Indicators (Activity and Failed)
- Email Notification
- Alarm/Buzzer alerts for drive/array failure
- SAF-TE (I2C) and SGPIO enclosure management

### RAID Management

- Online Capacity Expansion (OCE) and Online RAID Level Migration (ORLM)
- Quick and Background initialization for instant RAID configuration
- Write Back and Write Through support
- API library for customization
- CLI (Command Line Interface)
- Web GUI RAID management (local and remote monitoring)
- SHI (Drive analysis driven from S.M.A.R.T)

### Operating System Support

- Windows (2000, XP, 2003 and Vista capable),
- Linux
- FreeBSD,
- Mac OS X

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### The RocketRAID 2642 Host Adapter

The RocketRAID 2642 is a high-performance SAS RAID solution, delivering reliability to demanding data-intensive applications such as tiered storage environments (Disk-to-Disk backup), security and surveillance, video editing, and digital content creation. Support for both SAS and SATA 3Gb/s drives on the same controller maintains configuration optimization for performance based on the characteristics of SAS and SATA drives available today.

### HighPoint RAID Management

HighPoint RAID Management software offers a user friendly interface to create, manage and maintain your storage solutions. Email notification and remote are some of the advance features that the RAID Management software has to offer.

### COMPREHENSIVE OS SUPPORT

HighPoint offers the broadest range of support for all major operating systems to ensure OS and hardware server compatibility. Drivers are available for all major operating systems, including Windows , Linux, Mac OS X and FreeBSD.

### PHYSICAL SPECIFICATIONS

Size: (79.4mm x 67.5mm) 3.13" L x 2.66" W

EMI : FCC Part 15 Class B and CE

### Thermal and Atmospheric Characteristics:

Work Temperature Range : +5°C ~+ 55°C

Relative Humidity Range : 5% ~ 60% non condensing

Storage Temperature : ~20 ~ 80°C

MTBF: 920,585 Hours

### Electrical Characteristics:

PCI-e	3.3V
Power	5W

### RocketRAID 2642 Specification

Host Side Interface	PCI-E x4
Device Interface	SAS/SATA ((II/I)
Number of Channels	4 SAS/SATA ((II/I) channels
Supported RAID Levels	RAID 0, 1, 5, 10, and JBOD
Operating Systems Support	Windows (2000, XP, 2003 and Vista capable), Linux, FreeBSD, Mac OS X
RAID Management Tool	BIOS Web based RAID Management Software and CLI
Some Highlighted Features	Hot swap/hot spare 64bit LBA for over 2TB partition support Drive Activity/Failed LED support SMTP support for email notification OCE/ORLM Automatic RAID Rebuild Online Array Roaming

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