

# RocketRAID 2640X4

The World's First Slim/Fast PCI-Express x4 SAS RAID Controller



## Host Adapter Architecture

- PCI-Express x4
- 4 Internal SAS/SATA 3Gb/s Device Ports
- Up to 4 SAS/SATA Hard Drives
- NCQ (Native Command Queuing)
- Low Profile

## 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
- S.M.A.R.T (Early Warning System)
- TerabyteGuard™ for data protection and reliability
- Bad sector repair and remapping to reduce dropped drives

## Array Monitors, Alerts and Indicators

- Hard Drive LED Indicators (Activity and Failed)
- Email Notification
- Alarm/Buzzer alerts for drive/array failure
- Enclosure Management support with I2C and SGPIO

## RAID Management

- Online Capacity Expansion (OCE) and Online RAID Level Migration (OLRM)
- 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, x64, 2003, 2008, Vista (32 and 64) BIT)
- Linux (Fedora Core, Red Hat Enterprise / CentOS, SuSE)
- Mac OS X 10.4.x and above
- FreeBSD
- Linux Open Source

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## ROCKETRAID 2640X4 HOST ADAPTER

The RocketRAID 2640X4 is high-performance SAS RAID solutions, delivering reliability to demanding data-intensive applications such as tiered storage environments (disk-to-disk), 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. Linux Open Source driver help customers easily install and configure the RocketRAID 2640X4 controller.

## PHYSICAL SPECIFICATIONS

Size: (87.8mm x 64.3mm) 3.45”L x 2.53”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 2640X4 Specification

Host Side Interface	PCI-Express x4
Device Interface	SAS/SATA
Number of Channels	4 SAS/SATA 3Gb/s Device Port
Supported RAID Levels	RAID 0, 1, 5, 10, and JBOD
Operating Systems Support	Windows, Linux, Mac OS X, FreeBSD
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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three limited warranty information