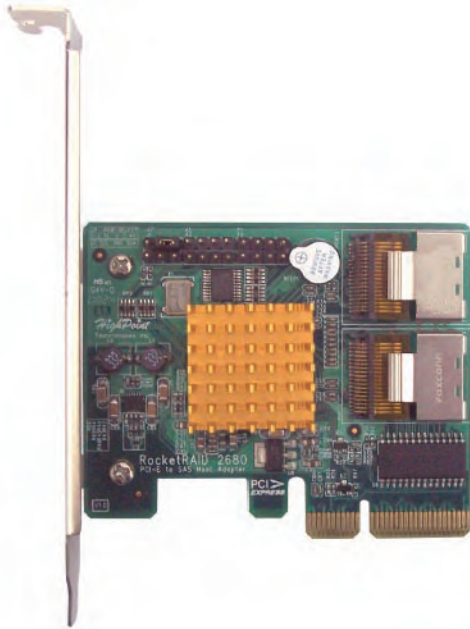# RocketRAID 2680

8 Channel PCI-Express x4 SAS RAID Controller

Host Adapter Architecture

• PCI-Express x4
• 8 Internal SAS/SATA 3Gb/s Device Ports
• Direct Connect up to 8 3Gb/s SAS or SATA Hard Drives
• NCQ (Native Command Queuing)
• Low Profile
• RoHS complaint

Advance RAID Features

• Support RAID 0, 1, 5, 10,50 and JBOD
• Multiple RAID support
• Multiple Logical Drive Support
• Write Through / Write Back Support
• BIOS booting support
• BIOS PnP and BBS (BIOS boot specification)support
• Online array roaming
• Online capacity expansion (OCE) and Online RAID level
   migration (ORLM)
• Quick and Background initialization for instant RAID
   configuration
• Automatic drive insertion / removal detection and rebuild
• 64bit LBA support greater than 2TB per volume
• S.M.A.R.T monitoring hard drive stability
• Staggered Spin up

Array Monitors, Alerts and Indicators

• Active/Failed LED
• SMTP for email notification
• Alarm/Buzzer alerts for drive failure
• SAF-TE (I2C) and SGPIO enclosure management

RAID Management

• TerabyteGuard™ for data protection
• BIOS update in the Operating System
• Hot key (ctrl-h) boot-up RAID manager via BIOS
• API library for customizing AP
• Command Line Interface (CLI)
• Web browser-base RAID management software
• Disk scrubbing to prevent degraded RAID arrays
• Bad sector repair and remapping to reduce dropped
   drives

Operating System Support

• Windows (2000, XP, 2003 and Vista capable),
• Linux
• FreeBSD

RocketRAID 2680

8 Channel PCI-Express x4 SAS RAID Controller

RocketRAID 2680 HOST ADAPTER

The RocketRAID 2680 is a high-performance SAS RAID solution, 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.

PHYSICAL SPECIFICATIONS

Size: 65mm x 79.3mm

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	12 V	3.3V
Power	6W max	0.5W max

RocketRAID 2680 Specification

Host Side Interface	PCI- Express x4 (x8 and x16 slot compatible)
Device Interface	3Gbps SAS or SATA Channels
Number of Channels	8 SATA/SAS Channels
Supported RAID Levels	RAID 0, 1, 5, 10, 50 and JBOD
Operating Systems Support	Windows, Linux,FreeBSD
RAID Management Tool	BIOS
Web based RAID