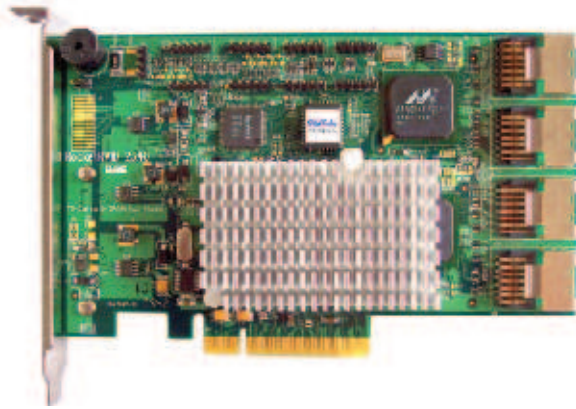# RocketRAID 2340

16-Channel PCI-e to SATA II RAID Controller

- PCI Express x8
- 4 Mini SAS Connectors
- 16 SATA II and SATA I hard drive support
- Up to 300MB/s for each SATA II drive port
- Support RAID level 0, 1, 5, 10, 50 and JBOD
- Online Capacity Expansion and Online RAID Level Migration (OCE/ORLM)
- Native Command Queuing (NCQ)
- SAF-TE enclosure management
- Hard drive activity and Failed LED support
- Staggered drive spin-up support
- Hot swap and hot spare
- Write-through and write-back cache support
- Quick and Background initialization for quick RAID configuration
- Online array roaming
- BIOS booting support (INT13)
- Updating adapter BIOS through OS
- 64bit LBA for over 2TB support
- Automatic RAID rebuild of failed drive
- S.M.A.R.T drive monitoring for status and reliability
- Browser-based RAID management software
- Command Line Interface (CLI)
- SMTP for email notification
- Operating system support for Windows, Windows x64 Editions, Linux (open source) and FreeBSD (open source)

RocketRAID 2340 Host Adapter

The HighPoint RocketRAID 2340 RAID Controller offers Mini SAS connectivity solution for entry-level storage servers commonly found in small to medium size business (SMB) IT environments. The RocketRAID 2340 delivers optimized performance and features through the use of HighPoint's industry-leading RAID technology.

The RocketRAID 2340 is the next generation in storage technology, leveraging the latest in storage performance SATA II and bus technology in PCI Express. The RR2340 offers the fastest available throughput and supports enterprise level features such as Native Command Queuing (NCQ), staggered driver spin-up and SAF-TE enclosure management support.

The RR2340 supports up to 16 SATA I or SATA II hard drives meetings the needs to storage intensive applications such as video-editing and digital imaging.

The RocketRAID 2340 RAID Controllers are an integrated family of advanced storage connectivity solutions. These products are designed to provide reliable connectivity, intelligence and scalability. Meeting tomorrow's connectivity needs today, the RR2340 RAID Controller extends the capabilities of software and hardware, relieving them from their data-management burdens.

MINI SAS CONNECTORS

The RR2340 integrates four Mini SAS connector ports to support up to 16 SATA I or SATA II hard drives.

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 and FreeBSD.

PHYSICAL SPECIFICATIONS

Size: 6.299"L x 3.937"W (160.0mm x 100.0mm)
EMI : FCC Part 15 Class B and CE

Thermal and Atmospheric Characteristics:

Work Temperature Range :+10°C ~ +55°C
Relative Humidity Range : 5% ~ 60% non-condensing
Storage Temperature : -~20 ~ 80°C

MTBF: 920,585 Hours

Electrical Characteristics:
PCI/PCI-X+3.3V : 2.57A
PCI/PCI-X +5.0V: 0 A
Power: 8.5W
Operating Range: +5°C~+40°C

RocketRAID 2340 Specification

Host Side Interface	PCI-Express x8
Device Interface	SATA I or SATA II
Number of Channels	4 Mini SAS
Allowed Disk Connection	4 per Mini-SAS channel up to 16 (SATA I or II Hard Drives)
Supported RAID Levels	RAID 0, 1, 5, 10, 50 and JBOD
Operating Systems Support	Windows, Linux and FreeBSD
RAID Management Tool	BIOS Web based RAID Management Software and CLI
Some Highlighted Features	Hot swap/hot spare 64bit LBA for over 4TB partition support Up to 16 SATA I or SATA II hard drives Drive Activity/Failed LED support SMTP support for email notification