RocketRAID 2310

4 channel PCI-e to SATA II RAID Controller

- PCI Express x4 (x8 and x16 slot compatible)
- 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 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)
- 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 2310 PCI-e to SATA II RAID Controller

The HighPoint RocketRAID 2310 PCI Express to SATA II RAID Controller is the next generation for high performance computing solutions utilizing the latest interconnect PCI-Express.

The RocketRAID 2310 is set to give much faster and improved I/O and supports features that are critical for high performance computing, high end workstation and enterprise storage server environments.

PCI Express delivers data transfer in both directions simultaneously with its serial data transfer system and brings with it higher clock speeds.

Each expansion slot in PCI Express can have several channels which gives plenty of room for expansion. There is also the same data rate in both directions providing the performance and scalability for the next decade.

The HighPoint RocketRAID 2310 Controller offers 4 internal ports that combine high-performance storage connectivity of Serial ATA with HighPoint's advanced RAID features, including, (OCE / ORLM) - Online Capacity Expansion and Online RAID Level Migration and HighPoint's RAID Management software.

The RocketRAID 2310 supports advanced RAID levels 0, 1, 5, 10, and JBOD for maximum configuration flexibility.

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. Open source is alsoprovided for Linux and FreeBSD.

PHYSICAL SPECIFICATIONS

Size: 4.129"L x 2.362"W (104.9mm x 60.0mm)

EMI & ECC: FCC Part 15 Class B and CE

Thermal and Atmospheric Characteristics

Work Temperature Range: +5 $^\circ$C ~+ 55 $^\circ$C
Relative Humidity Range: 5% ~ 60% non condensing
Storage Temperature: ~20 ~ 80 $^\circ$C

MTBF: 920.585 hours

Electrical Characteristics:
PCI-Express: 3.3v
Power: 10W

RocketRAID 2310 Specification

Host Side Interface	PCI Express x4 (x8 and x16 slot compatible)
Device Interface	Serial ATA
Number of Channels	4 Device Channels
Allowed Disk Connection	Four (SATA II or SATA I Hard Disks)
Supported RAID Levels	RAID 0, 1, 5, 10, JBOD
Operating Systems Support	Windows, Windows x64 Editions, Linux (open source) and FreeBSD (open source).
RAID Management Tool	BIOS Browser-based RAID Management CLI
Some Highlighted Features	Hot swap/hot spare 64-bit LBA support for over 2TB supportt Drive activity / Failed LED SAF-TE chassis management SMTP support for email notification