

# RocketRAID 1820A

8-Channel PCI-X Serial ATA RAID Host Adapter



*Support 133MHz, 64bit PCI-X bus*

*Tagged Command Queuing*

*Low Profile*

*Operating Systems support:  
Microsoft Windows, Linux, FreeBSD, and MacOS X*



- Supports 64bit, 66/100/133MHz PCI-X
- Backwards compatible with PCI slot
- Supports a maximum of 8 hard disks
- Supports Tagged Command Queuing
- Advanced Cache Algorithm and Optimized XOR Technique
- IDE hard disk compatible when used with RocketHead 100 converters (Optional)
- Supports RAID 0, 1, 5, 10, and JBOD
- Supports hot-spare for automatic rebuild
- Bootable disk or disk array support
- Windows-based RAID configuration & management software tool (compatible with BIOS)
- Real-time monitoring of device status and error alarm with popup message box and beeping
- Event log for easy troubleshooting
- Large LBA supports drive capacity exceeding 137GB

## SCSI REPLACEMENT

Making sure that data is protected – while remaining instantly accessible – requires faster, smarter solutions. HighPoint offers such a solution with an Optimized XOR technique with advanced Intelligent Cache Algorithm powered by HighPoint's HPT601. This solution provides a significant performance enhancement and it is ideal for RAID implementations. This will be the preferred choice of OEMs, ODMs, system integrators and resellers worldwide for its superior performance and ease of use. This solution will offer the best performance versus cost ratio for Terabyte systems.

## INTRODUCTION TO PCI-X

The 64-bit PCI-X architecture supports transfer rates above 1 gigabyte per second, and operates at speeds up to 133 MHz. In addition, it is backward compatible with the existing standard PCI bus. The bandwidth provided by PCI-X is ideal for industry standard servers running enterprise applications.

## SUPPORTS TCQ

The RocketRAID 1820A utilizes a power performance enhancement feature called Tagged Command Queuing (TCQ). TCQ is designed to increase performance and endurance by allowing the hard disk to internally optimize the execution order of workloads. With the RocketRAID 1820A supporting TCQ your system will gain improved performance of queued workloads and by minimizing mechanical latencies the drive will have less mechanical wear.

## THE ROCKETRAID 1820A

With 8 Serial ATA channels, the RocketRAID 1820A provides advanced RAID functionality at an affordable price. It can support up to eight hard disks and utilizes a 64bit, 133MHz PCI-X bridge. The RocketRAID 1820A solution is aimed at enterprise storage, NAS storage, workgroup and web servers, video streaming, back up and security systems.

## SATA RAID FUNCTION & WINDOWS-BASED UTILITY FOR RAID CONFIGURATION / MANAGEMENT

Serial ATA provides multi level RAID supports including RAID 0, 1, 5, 10, and JBOD, as well as powerful software management functions. In addition to the BIOS configuration utility, the RocketRAID 1820A includes Windows-based RAID configuration software.

## AN IDEAL SATA RAID SOLUTION

As a high-performance, affordable RAID solution, the RocketRAID 1820A makes sense for nearly any Server, critical business data storage, gaming, security system, and high-end personal storage.

## THE ROCKETRAID 1820A SPECIFICATION

|                                  |  |
|----------------------------------|--|
| <b>Host Side Interface</b>       | 64bit, 66/100/133MHz PCI-X   |
| <b>Disk Interface</b>            | Serial ATA; IDE (with RH100 converters)  |
| <b>Number of Channels</b>        | Eight Device Channels  |
| <b>Allowed Disk Connection</b>   | Eight SATA Hard Disks  |
| <b>Supported RAID Levels</b>     | RAID 0, 1, 5, 10, JBOD   |
| <b>Operating Systems Support</b> | Windows NT4.0/2K/XP/2003, Linux (Red Hat, SuSE, Mandrake, Fedora, Debian, and Open build drivers), FreeBSD, and MacOS X (10.2, 10.3 for G4/G5 systems) |
| <b>RAID Management Tool</b>      | BIOS Window-based Management Software  |
| <b>Some Highlighted Features</b> | - TCQ support<br>- Automatic E-mail notification when error occurs<br>- Bootable array support<br>- Large LBA support<br>- capacity exceeding 137GB    |



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