RocketRAID 3520

8 Channel PCI-e SATA II IOP Based RAID Controller

Host Adapter Architecture

- TerabyteStream™ for Blazing Performance
- Intel IOP 80341(800MHz)
- PCI -Express x8 (x16 slot compatible)
- 256 MB of DDR II memory with ECC protection
- Write through and write back cache
- 8 SATA II channels at 3Gb/s per port
- Multi -adapter support up to 4 adapters
- BIOS booting support
- BIOS PnP and BBS (BIOS boot specification)support
- Intel RAID 6 Engine for large capacity RAID arrays
- Battery Backup Unit (BBU) Optional
- RoHS compliant

Advance RAID Features

- Support RAID 0, 1, 5, 10, 50, 6 and JBOD
- Multiple RAID support
- Multiple Logical Drive 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 status for reliability
- Staggered Spinup with user selection in BIOS
- (MAID) spin down drives in array is idle

Array Monitors, Alerts and Indicators

- Active/Failed LED
- SMTP for email notification
- SAF -TE (I2C) enclosure management
- Alarm / Buzzer alerts for array activity

RAID Management

- TerabyteSaver™ and TerabyteGuard™ for Data Protection and Reliability
- Firmware 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
- ATA pass-through mode support

Operating System Support

- Windows (2000, XP)
- WHQL Certified for Windows Vista and Windows 2003)
- Linux
- Mac OS X 10.4 (Tiger) and 10.5 (Leopard)
- FreeBSD
- Open Source Driver (GPL Licensed) into Linux kernel

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ROCKETRAID 3520 HOST ADAPTER

The HighPoint RocketRAID 3520 PCI-e x8 SATA II RAID Controller offers the features needed for enterprise level storage environments. The RocketRAID 3520 delivers optimized performance and features through the use of HighPoint's industry-leading RAID technology.

The RocketRAID 3520 is the latest product in storage technology, leveraging the storage performance in SATA II and supporting the fastest available throughput while supporting enterprise level features such as Native Command Queuing (NCQ), staggered drive spin-up and SAF-TE (I2C) enclosure management support.

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.

Intel 80341 I/O Processor and SDRAM

The RocketRAID 3520 RAID Controller has an intergrated hardware I/O processor for RAID 6 parity calculations. With the new I/O processor the system CPU is free to perform other important tasks. There is also 256MB of DDR SDRAM with ECC protection on the RocketRAID 3520 RAID Controller for improved performance and is utilized with the optional battery back up unit for system disasters.

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. GPL Licensed Linux drivers into main Linux kernel help customers easily install and configure the RocketRAID 3520.

PHYSICAL SPECIFICATIONS

Size: (164.0mm x 66.0mm) 6.45"L x 2.59"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°C ~ 80°C

MTBF: 920,585 Hours

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

RocketRAID 3520 Specification

Host Side Interface	PCI-e x8 (x16 slot compatible)
Device Interface	SATA I or SATA II
Number of Channels	8 SATA Channels
Supported RAID Levels	RAID 0, 1, 5, 6,10, 50 and JBOD
Operating Systems Support	Windows, Linux, Mac OS X and 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