HighPoint Technologies, Inc.

RocketRAID 3530/3540

12/16 Channel PCI-Express SATA II IOP Based RAID Controller

Host Adapter Architecture

- TerabyteStream™ for Blazing Performance
- Intel IOP 81341(800MHz)
- PCI -Express x8(compatible with x16 slot)
- 256 MB of DDR II memory with ECC protection
- RocketRAID 3530/3540 supports up to 12/16 SATA II drives
- Multi adapter support up to 4 adapters
- Intel RAID 6 (P+Q) for large capacity RAID arrays
- NVRAM for write journaling
- Battery Backup Unit (BBU) Optional
- RoHS compliant

Advance RAID Features

- Support RAID 0, 1, 3, 5, 6,10, 50and JBOD
- Multiple RAID support
- Multiple Logical Drive Support
- BIOS booting support
- BIOS PnP and BBS (BIOS boot specification)support
- Write through and write back cache
- 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 Spin up with user selection in BIOS
- (MAID) spin down drives in array is idle

Array Monitors, Alerts and Indicators

- SMTP for email notification
- Alarm / Buzzer alerts for drive failure
- SAF-TE (I2C) and SGPIO enclosure management
- SNMP for remote management
- Ethernet port for (OBM) Out of Bound Management
- NTP (Network Time Protocol)
- Intelli-VRM. (Intelligent Virtual RAID Management)

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 re-mapping to reduce dropped drives
- ATA pass-through mode support

Operating System Support

- Windows (2000, XP, x64), 2003, 2008 and Vista (32 and 64) BIT)
- Linux
- FreeBSD
- Mac OS X 10.4.x & 10.5.x
- GPL licensed driver into Linux Kernel 2.6.25

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ROCKETRAID 3530/3540 HOST ADAPTER

The HighPoint RocketRAID 3530/3540 is the world's fastest internal RAID controller utilizing Intel IOP341 processor.The RocketRAID 3530/3540 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 81341 I/O Processor and SDRAM

The RocketRAID 3530/3540 RAID Controller has an integrated hardware I/O processor for RAID 6 parity calculations. With the new I/O processor the system CPU is free toperform other important tasks. There is also 256MB of DDR SDRAM with ECC protection on the RocketRAID 3530/3540 RAID Controller for improved performance

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 3530/3540.

PHYSICAL SPECIFICATIONS

Size: (202.0mm x 96.0mm) 7.95" L x 3.77" 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° ~ 80°C

MTBF: 920,585 Hours

Electrical Characteristics:

PCI-e	3.3V	12V
Power	2W max	14W max

RocketRAID 3530 Specification

Host Side Interface	PCI- Express x8(compatible with x16 slot)
Device Interface	SATA II
Number of Channels	12/16 SATA II channels
Supported RAID Levels	RAID 0, 1, 3, 5, 6,10, 50and JBOD
Operating Systems Support	Windows, Linux, Mac OS X and FreeBSD
RAID Management Tool	Web based RAID Management Software and CLI
Some Highlighted Features	Hot swap/hot spare 64bit LBA for over 2TB partition support SMART hard drive monitoring SMTP support for email notification OCE/ORLM Automatic RAID Rebuild Online Array Roaming