

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

