

The Industry's First Enterprise-Level 3Gb/s SATA II RAID Adapter

Key Advantages

- 3Gb/s (300MB/s) SATA II Data Transfer Rate
- Native Command Queuing (NCQ) and Tagged Command Queuing (TCQ) for increased performance
- Enclosure Management (SAF-TE) support
- Battery Backup Support



High Performance Technology

The MegaRAID SATA 300-8X PCI-X RAID adapter offers data transfer rates of up to 3Gb/s per port. Designed with the Intel® 80331 I/O processor and a high-speed PCI-X host interface, the MegaRAID SATA 300-8X delivers the highest level of SATA performance, while maintaining an affordable price point.

Migrating to the Next Generation

In addition to 3Gb/s SATA transfer rates, the MegaRAID SATA 300-8X supports Native Command Queuing (NCQ) and Enclosure Management (SAF-TE). NCQ, among the more advanced features defined in the SATA II specification, allows for higher performance and increased reliability by reordering commands more efficiently. Enclosure Management (SAF-TE) support allows administrators to manage the status of enclosures and drives. With support for these new SATA features, the MegaRAID SATA 300-8X provides a reliable and robust RAID solution to data intensive storage applications.

Battery Options for Complete Data Protection

LSI Logic provides a family of MegaRAID battery backup units for use with its high-performance MegaRAID storage adapters. The MegaRAID SATA 300-8X has two battery options that protect the integrity of the cached data by providing backup power in the event of a complete power failure or a brief power outage. The LSIBBU03 provides up to 32 hours of retention time while the LSIBBU01 preserves data integrity for up to 72 hours.

Powerful RAID Management Utilities

The MegaRAID SATA 300-8X management software suite consists of a complete set of tools including two BIOS-level utilities (MegaRAID BIOS Configuration Utility and WebBIOS), character-based MegaManager, and graphically powered Power Console Plus (PCP). This selection of powerful RAID management tools provides the capability to efficiently configure, monitor, and manage RAID systems locally or over a network.

LSI LOGIC®

ENVIRONMENTS

Entry-level to mid-range servers and network storage applications requiring a cost-effective scalable SATA interface

TYPICAL USES

Digital video editing, near line storage, workgroup server, backup and restoration

FEATURES

- Half-size PCI form factor
- Fast initialization for quick array setup
- Intel® XScale™ IOP331 I/O processor
- Serial ATA 1.5Gb/s and 3Gb/s drive mode support
- Re-flashable BIOS
- BIOS Boot Specs (BBS) support
- Post Memory Management (PMM) support
- FlexRAID® support
 - Online capacity expansion
 - Online RAID level migration
- Ships with 128MB embedded DDR SDRAM



MegaRAID® SATA 300-8X

EIGHT-PORT 3Gb/s SATA II RAID ADAPTER

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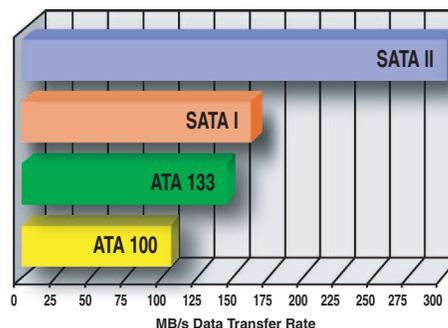
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	LSI Logic MegaRAID SATA 300-8X
Product Advantages	3Gb/s data transfer rate per port, NCQ, enclosure management support and battery backup increase performance, manageability and reliability in storage environments
Solution Provided	High-performance eight-port PCI-X SATA II RAID adapter for cost-sensitive storage environments
Environment	Data intensive storage environments requiring a reliable, robust and affordable SATA RAID solution

Inside the Box (LSI00005)	MegaRAID SATA 300-8X adapter, eight (8) internal 7-pin SATA cables, Driver CD, Quick Install Guide
Internal Connectors	Eight (8) internal Serial ATA 7-pin
Device Support	Eight (8) 1.5Gb/s or 3Gb/s SATA drives
Data Transfer Rates	Up to 3Gb/s per port
Cache Memory	128MB embedded ECC DDR SDRAM
Bus Type	64-bit, 133MHz PCI-X
Physical Dimensions	Half-size PCI; 6.6" x 4.2" or 16.78cm x 10.67cm
RAID and Fault Tolerant Features	<ul style="list-style-type: none"> • RAID Levels 0, 1, 5, 10 and 50 • Enclosure management support (SAF-TE) • Variable stripe size support • 40 logical drive support • Patrol read • FlexRAID power fail option • Online capacity expansion • Fast initialization for quick array setup • S.M.A.R.T. support • Native Command Queuing (NCQ) • Tagged Command Queuing (TCQ) • Flashable BIOS • Drive hot plug support • Automatic rebuild of hot spare drives • Online RAID level migration • Battery backup support • Configuration on Disk (COD)/NVRAM
RAID Management	<ul style="list-style-type: none"> • Online Utilities <ul style="list-style-type: none"> – Power Console Plus (GUI-based) – MegaManager (character-based) • Preboot Utilities <ul style="list-style-type: none"> – MegaRAID BIOS Configuration Utility (character-based) – WebBIOS Configuration Utility (browser-based)
OS Support	<ul style="list-style-type: none"> • Microsoft® Windows® Server 2003/2000/XP • Red Hat® AS Linux® • Novell® Netware® • SuSE® Professional Linux® • SuSE® Linux® Enterprise Server (SLES) • FreeBSD® • SCO® Open Server® • SCO® UnixWare®
Operating Temperature	0-60°C (w/o BBU card), 0-45°C (w/BBU card)
Operating Voltage	5.00V ±0.25V
Regulatory Certification	CE, FCC, C-tick, ETL, VCCI, BSMI and RRL
Warranty	3 years, free advanced technical support, advance replacement option

PERFORMANCE ADVANTAGE

Double your speed with SATA II RAID, reaching up to 3Gb/s (300MB/s) data transfer speeds. The MegaRAID SATA 300-8X provides the industry's most robust and affordable Serial ATA RAID solution.



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