The Industry's First IOP-based, SATA II RAID Adapter Offers High Data Throughtput, Extensive Fault Tolerance Capabilities and Advanced Management Utilities

Key Advantages

ENVIRONMENTS

SATA interface

TYPICAL USES

and restoration

array setup

FEATURES

Entry-level to mid-range servers

and network storage applications

requiring a cost-effective scalable

Digital video editing, near line

• Half-size PCI form factor

• Fast initialization for quick

Intel[®] XScale[™] IOP331 I/O

Marvell 88SX6081 PCI-X SATA

 BIOS Boot Specs (BBS) support
 Post Memory Management (PMM) support

Online capacity expansion
Online RAID level migration
Ships with 128MB embedded

processor on-board

controller on-board

• Re-flashable BIOS

48-bit LBA support

FlexRAID[®] support

DDR SDRAM

 Serial ATA 1.5Gb/s and 3Gb/s drive mode support

storage, workgroup server, backup

- Supports SATA II 3Gb/s and SATA Extensions
- Port Multiplier Technology Supports 32 Drives with Eight, 1-to-4-Port Multipliers
- High Performance Throughtput
- Extensive Fault Tolerant Capabilities
- Online Capacity Expansion

A Cost-Effective Serial ATA Solution

Developed for intensive storage applications, the MegaRAID SATA 300-8X provides speed and bandwidth for cost sensitive environments. Leveraging a stable, OEM-proven RAID firmware core, the MegaRAID SATA 300-8X offers unequalled fault tolerance capabilities, superior RAID performance, and reliable data availability.

High Performance Technology

The point-to-point scalable MegaRAID SATA 300-8X PCI-X RAID adapter offers data transfer speeds of up to 3Gb/s per port. Delivering a powerful coupling of technology with the Intel PCI-X Xscale IOP331 integrated I/O processor and Marvell 88SX6081 PCI-X SATA interface, the MegaRAID SATA 300-8X powers world-class SATA II storage solutions.

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.

Migrating to the Next Generation

Fully compliant with SATA I and SATA II, the MegaRAID SATA 300-8X includes Native Command Queuing, Port Multiplier and Enclosure Management support. MegaRAID SATA II solutions offer a proven software stack, consistent management utilities and an easy migration path to the next generation of SCSI product, Serial Attached SCSI (SAS). With the common interface of MegaRAID software, users can seamlessly upgrade to a SAS system by simply moving the SATA drives to an LSI Logic SAS controller.

OS Driver Availability

The MegaRAID SATA 300-8X supports a wide range of operating system drivers including Microsoft Windows, Linux, Netware, SCO UnixWare, and SCO OpenServer. LSI Logic drivers optimize the RAID interface providing the highest data transfer rates and data consistency checks on all mirrored drives.

Visit: **http://lsilogic.com/reseller** for partner program details.





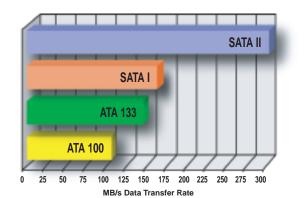
MegaRAID[®] SATA 300-8X EIGHT-PORT PCI-X SERIAL ATA RAID STORAGE ADAPTER

	LSI Logic MegaRAID SATA 300-8X	
Product Advantages	Supports SATA I and SATA II specs; increasing performance, reliability, flexibility, manageability and availability in storage environments	
Solution Provided	High performance eight-port PCI-X SATA RAID adapter providing high data throughput, reliability, and availability in cost sensitive and near line servers	
Environment	Entry-level to mid-range servers and network storage applications requiring a cost-effective scalable SATA RAID interface	

Internal Connectors	Eight internal Serial ATA 7-pin, 1 meter cables		
Device Support	Combined with Port Multiplier technology, the MegaRAID SATA 300-8X supports up to 32 drives with eight 1-to-4 Port Multipliers implemented in the chassis.		
Data Transfer Rates	Up to 3Gb/sec per port		
Cache Memory	128MB embedded DDR333 SDRAM		
Processor	Intel [®] XScale [™] IOP331 integrated I/O processor		
Bus Type	64-bit, 133MHz PCI-X host interface		
Physical Dimensions	Half-Size PCI (short card) 6.6" x 4.2" or 16.78cm x 10.67cm		
Operating Temperature	0-60°C (w/o BBU card), 0-45°C (w/BBU card)		
Operating Voltage	5.00V ±0.25V		
Warranty	3 years, free advanced technical support, advance replacement option		
Regulatory Certification	CE, FCC, C-tick, ETL, VCCI, BSMI and RRL		
RAID and Fault Tolerant Features	 RAID levels 0, 1, 5, 10, and 50 	 Fast initialization for quick array setup 	
	Variable strip size support	 Enhanced error handling and reporting 	
	Flashable BIOS	Port Multiplier support	
	 40 logical drive support 	 Native command queuing 	
	Drive hot plug support	 48-bit LBA for drives greater than 137GB 	
	Patrol read	 Configuration on Disk (COD)/NVRAM 	
	Automatic rebuild of hot spare drives	• S.M.A.R.T. support	
	FlexRAID power fail option	Online capacity expansion	
	Online RAID level migration	SAF-TE enclosure management	
	 Battery backup support (optional) 	Staggered drive spin-up	
RAID Management	Online Utilities:	Pre-Boot BIOS Utilities:	
	– Power Console Plus (GUI-based)	 MegaRAID BIOS Configuration Utility (character-based) 	
	– MegaManager (character-based)	- WebBIOS Configuration Utility (browser-based)	
OS Support	 Microsoft[™] Windows[®] XP/2000/Server 2003 		
	 Red Hat[®] AS Linux[®] 	 Suse[®] Professional Linux[®] 	
	 Novell[®] NetWare[®] 	 Suse[®] Linux[®] Enterprise Server (SLES) 	
	 SCO[®] OpenServer 	• SCO [®] UNIXWare	
System Support	• IA-32 (or x-86)	• IA-64	
	• AMD64	• Intel [®] EM64T	

PERFORMANCE ADVANTAGE

Double your speed with SATA II, reaching up to 300MB/s (3Gb/s) data transfer speeds. The MegaRAID SATA 300-8X provides the industry's most cost-effective and robust Serial ATA RAID solution. LSI Logic is leading the market in advanced storage solutions.



Visit the LSI Logic web site at: http://lsilogic.com/storage

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