

# MegaRAID® SAS 9260-4i

## Four-Port 6Gb/s PCI Express SATA and SAS RAID Controller



### Key Features

- Four internal 6Gb/s SATA+SAS ports
- One Mini-SAS internal connector (SFF-8087)
- LSI SAS 2108 6Gb/s RAID-on-Chip –800MHz PowerPC®
- 512MB 800MHz DDRII cache memory
- Optional battery backup module
- RAID Levels 0, 1, 5, and 6
- RAID Spans 10, 50, and 60

### Key Advantages

- Superior Performance
  - Maximum Reads: 2,875MB/s
  - Maximum Writes: 1,800MB/s
- PCI Express® 2.0 provides faster signaling for highbandwidth applications
- Support for 3Gb/s and 6Gb/s SATA and SAS hard drives
- SafeStore™ Encryption Services for more secure data protection

### Typical Applications

- Video-On-Demand
- Video-Surveillance
- Video Creation + Editing
- Medical Imaging
- High-Performance Computing
- Digital Content Archive and VTL
- Storage Appliance
- File, Web, Database, and Email Servers

Protect Business Critical Data with the Industry's Most Trusted SATA+SAS RAID Controllers

### Next-Generation SATA+SAS RAID

MegaRAID SATA+SAS controllers provide a new level of reliability, availability, and performance to businesses that are facing storage challenges driven by unprecedented data growth. With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9260-4i brings users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. This value line controller, ideal for cost-sensitive 1U and 2U server applications, employs the latest in RAID-on-Chip technology, complies with the PCI Express 2.0 specification, and provides additional data security using SafeStore encryption services.

### 6Gb/s SAS Performance Advantage

6Gb/s SAS is designed for backward compatibility with 3Gb/s SAS as well as with 6Gb/s and 3Gb/s SATA hard drives. Regardless of the drive speed, 6Gb/s MegaRAID controllers will deliver significant performance improvements in both read and write applications as compared to their 3Gb/s predecessors. Other new features of the 6Gb/s MegaRAID SATA+SAS controllers include greater signal integrity using Decision Feedback Equalization, support for more sophisticated SAS topologies using Expander Self-discovery/Self-configuration, and additional safeguards to enhance data protection.

### SafeStore Encryption Services

Avago is pleased to introduce SafeStore encryption services, which include instant secure erase for self-encrypting drives (SEDs). This technology represents a significant step forward in securing a drive's data from any unauthorized access or modification resulting from theft, loss, or repurposing of drives. Instant secure erase cryptographically erases an SED, whether it is 73GB or 1TB, in less than a second. This allows for secure drive returns or reuse.

### Intuitive RAID Management Utility

The MegaRAID Management Suite™ provides the essential software tools to efficiently manage MegaRAID products, whether deployed in an enterprise or small business. Avago offers a collection of applications and tools including a pre-boot setup utility and a full spectrum of online RAID management utilities. This suite of applications allow administrators to adjust SAS topology views from the system host, controller and disk enclosure down to the logical and physical drive level. Extending to enterprise deployments, these tools scale to easily configure, monitor and manage RAID volumes locally or over the LAN network.

LSI MegaRAID® SAS9260 - 4i	
Solution Provided	Four-port internal SATA+SAS RAID solution for cost-sensitive 1U and 2U server environments using up to 32 SATA or SAS hard drives or solid state drives
Physical Dimensions	MD2 Low profile (6.6" X 2.536")
Connectors	One Mini-SAS SFF-8087 internal connector
Device Support	Up to 32 SATA and/or SAS hard drives and SSDs
Host Bus Type	x8 lane PCI Express 2.0 Compliant
Data Transfer Rates	Up to 6Gb/s per port
I/O Processor/SAS Controller	LSI SAS 2108 RAID-on-Chip (ROC)
Cache Memory	512MB 800MHz DDR II SDRAM
Battery Backup Unit	LSiBBU07, an intelligent battery backup module option that directly connects to the adapter
Key RAID Data Protection Features	<ul style="list-style-type: none"> <li>• RAID levels 0, 1, 5, and 6</li> <li>• RAID spans 10, 50 and 60</li> <li>• Online Capacity Expansion (OCE)</li> <li>• Online RAID Level Migration (RLM)</li> <li>• Auto resume after loss of system power during array rebuild or reconstruction (RLM)</li> <li>• Single controller Multipathing (failover)</li> <li>• Load Balancing</li> <li>• Configurable stripe size up to 1MB</li> <li>• Fast initialization for quick array setup</li> <li>• Check Consistency for background data integrity</li> <li>• SafeStore Encryption Services                             <ul style="list-style-type: none"> <li>– Instant Secure Erase</li> </ul> </li> <li>• SSD Support with SSD Guard™</li> <li>• Patrol read for media scanning and repairing</li> <li>• 64 logical drive support</li> <li>• DDF compliant Configuration on Disk (COD)</li> <li>• S.M.A.R.T support</li> <li>• Global and dedicated Hot Spare with Revertible Hot Spare support                             <ul style="list-style-type: none"> <li>– Automatic rebuild</li> <li>– Enclosure affinity</li> <li>– vEmergency SATA hot spare for SAS arrays</li> </ul> </li> <li>• Enclosure management                             <ul style="list-style-type: none"> <li>– SES (inband)</li> <li>– SGPIO (sideband)</li> </ul> </li> </ul>
Operating Temperature	Ambient: 0-60°C (10-45°C w/iBBU)
Operating Voltage	+3.3V
Warranty	3 years, free advanced technical support, advanced replacement option
Regulatory Certifications	EN55022, EN55024, EN60950, EN 61000-3-2, EN 61000-3-3; FCC Class A, Class B; UL1950; UL; CSA C22.2; VCCI; RRL for MIC; BSMI; C-tick
RAID Management	MegaRAID Management Suite <ul style="list-style-type: none"> <li>– MegaRAID Storage Manager™</li> <li>– MegaCLI (command-line interface)</li> <li>– WebBIOS</li> </ul>
OS Support	Extensive support includes Microsoft® Windows® Vista/Server 2003, Linux® and more. Visit the download center for the most complete list of supported operating systems: <a href="http://www.lsi.com/support">www.lsi.com/support</a>

Ordering Information	
MegaRAID SAS 9260-4i Single Pack	LSiBBU08
MPN: L5-25121-30	MPN: L5-25343-06
OPN: LSI00197	OPN: LSI00264



Visit the Avago Server Storage website at: [avagotech.com/server-storage](http://avagotech.com/server-storage)

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