



**KEY FEATURES**

- Four internal 6Gb/s SATA+SAS ports
- One Mini-SAS internal connector (SFF-8087)
- LSISAS2108 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**

- 6Gb/s SAS for superior levels of RAID performance
- PCI Express® 2.0 provides faster signaling for high-bandwidth 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

## MegaRAID® SAS 9260-4i

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

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

#### Next-Generation SATA+SAS RAID

LSI™ 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 LSI SafeStore encryption services.

#### 6Gb/s SAS Performance Advantage

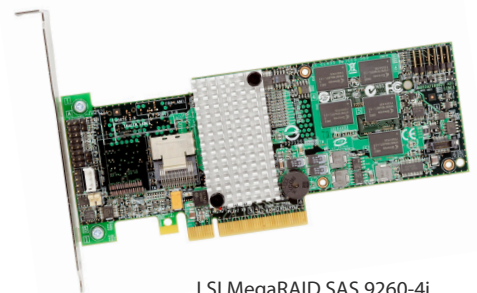
6Gb/s SAS is designed for backward compatibility with 3Gb/s SAS as well as with 6Gb/s and 3Gb/s SATA hard drives. Regardless of the drive speed, 6Gb/s MegaRAID controllers will deliver significant performance improvements in both read and write applications as compared to their 3Gb/s predecessors. Other 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.

#### LSI SafeStore Encryption Services

LSI 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. LSI 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 SAS 9260-4i

## MegaRAID SAS 9260-4i

Solution Provided	Four-port internal SATA+SAS RAID solution for cost-sensitive 1U and 2U server environments using up to 128 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 128 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	LSISAS2108 RAID-on-Chip (ROC)	
Cache Memory	512MB 800MHz DDR II SDRAM	
Battery Backup Unit	LSIIBBU07, an intelligent battery backup module option that directly connects to the adapter	
<b>Key RAID Data Protection Features</b>	<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> </ul>	<ul style="list-style-type: none"> <li>• Patrol read for media scanning and repairing</li> <li>• 64 logical drive support</li> <li>• Up to 64TB LUN 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>– Emergency 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	Maximum ambient: 60°C (44.5°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 - MegaRAID Storage Manager™ - MegaCLI (command-line interface) - WebBIOS	
OS Support	Extensive support includes Microsoft® Windows® Vista/Server 2003/2000/XP, Linux® and more. Visit the LSI download Center for the most complete list of supported operating systems: <a href="http://lsi.com/support">lsi.com/support</a>	

For more information and sales office locations, please visit the LSI web sites at:  
[Lsi.com](http://lsi.com)    [lsichannelgateway.com](http://lsichannelgateway.com)

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