



**KEY FEATURES**

- Eight internal 6Gb/s SATA+SAS ports
- Two Mini-SAS internal connectors (SFF-8087)
  - Horizontal mount
- LSI SAS2108 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 9261-8i

### Eight-Port 6Gb/s PCI Express SATA+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 9261-8i brings users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. This MegaRAID value line controller, ideal for inside-the-box connectivity, 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**

With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9261-8i bring users new features and improved performance, while continuing to support all the features of the previous 3Gb/s SATA+SAS generation. 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.

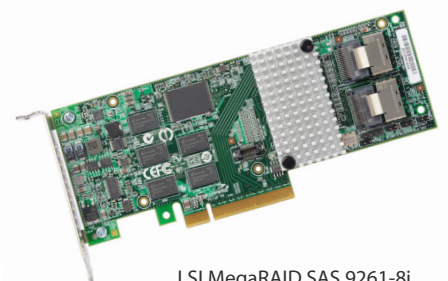
**LSI SafeStore Encryption Services**

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 provides instant data protection via cryptographic erase. Whether the drive is 73GB or 1TB, this feature will delete the existing encryption key and re-generate a new data encryption key in less than a second, enabling drives to be returned, retired, sold or reused securely.

**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 9261-8i

## MegaRAID SAS 9261-8i

<b>Solution Provided</b>	Eight-port internal SATA+SAS solution for high-density servers and workstations using up to 128 SATA and/or SAS drives	
<b>Physical Dimensions</b>	MD2 Low profile (6.6" X 2.536")	
<b>Internal Connectors</b>	Two Mini-SAS SFF8087 4i internal connectors (horizontal)	
<b>Device Support</b>	Up to 128 SAS and/or SATA hard drives	
<b>Host Bus Type</b>	x8 lane PCI Express 2.0 Compliant	
<b>Data Transfer Rates</b>	Up to 6Gb/s per port	
<b>I/O Processor/SAS Controller</b>	LSISAS2108 RAID-on-Chip (ROC)	
<b>Cache Memory</b>	512MB 800MHz DDR II SDRAM	
<b>Battery Backup Unit</b>	LSiBBU07, 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>
<b>Operating Temperature</b>	Maximum ambient: 60°C (44.5°C w/iBBU)	
<b>Operating Voltage</b>	+3.3V	
<b>Warranty</b>	3 years, free advanced technical support, advanced replacement option	
<b>Regulatory Certifications</b>	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	
<b>RAID Management</b>	MegaRAID Management Suite - MegaRAID Storage Manager™ - MegaCLI (command-line interface) - WebBIOS	
<b>OS Support</b>	Extensive support includes Microsoft® Windows® Vista/2008/Server 2003/2000/XP, Linux®, Solaris™ (x86), Netware®, FreeBSD®, VMware® and more. Visit the LSI download Center for the most complete list of supported operating systems: <a href="http://lsi.com/channel/support">lsi.com/channel/support</a>	

For more information and sales office locations, please visit the LSI web sites at:

lsi.com      [lsi.com/channel](http://lsi.com/channel)

LSI, LSI and Design logo, MegaRAID, SafeStore, SSD Guard, MegaRAID Management Suite, and MegaRAID Storage Manager are trademarks or registered trademarks of LSI Corporation. All other brand and product names may be trademarks of their respective companies.



LSI Corporation reserves the right to make changes to any products and services herein at any time without notice. LSI does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by LSI; nor does the purchase, lease, or use of a product or service from LSI convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual property rights of LSI or of third parties.

Copyright ©2009 by LSI Corporation. All rights reserved.  
November 2009