

**TYPICAL USES**



Storage



Video Surveillance



Super Computing



Medical Imaging



Video Creation



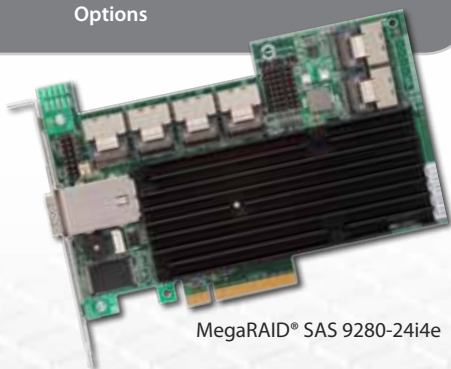
Video-on-Demand

**KEY FEATURES**

- Twenty-Eight 6Gb/s SATA+SAS ports
- Six Mini-SAS internal connectors (SFF-8087)
- One Mini-SAS external connector (SFF-8088)
- 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**

- Internal drive storage and external JBOD expansion
- PCI Express® 2.0 provides faster signaling for high-bandwidth applications
- Connect up to 240 3Gb/s and 6Gb/s SATA and SAS hard drives
- Support for LSI Advanced Software Options



MegaRAID® SAS 9280-24i4e

## MegaRAID® SAS 9280-24i4e

### 24-Port Internal / 4-Port External PCI Express SATA and SAS RAID Controller

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

#### Next-Generation High Port 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. The MegaRAID SAS 9280-24i4e, with twenty-four internal and four external ports, supports both internal drive storage and external JBOD expansion for up to 240 SATA or SAS drives. With a large number of internal ports, the 9280-24i4e connects up to 24 drives inside the server via direct connection or passive backplane. Using the external SAS ports, multiple JBODs can be connected to a server, providing a scalable and affordable solution for growing storage requirements.

#### 6Gb/s SAS Performance Advantage

With data transfer rates of up to 6Gb/s per port, the MegaRAID SAS 9280-24i4e 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 are designed to deliver significant performance improvements in both read and write applications as compared to their 3Gb/s predecessors.

#### Support for Advanced Software Options

The LSI family of 6Gb/s MegaRAID high port count controllers are designed to support advanced software options that provide white box channel partners with enhanced performance and data protection capabilities. These new software options can enable end users to address key business challenges while helping to deliver a higher return on their IT investments. MegaRAID CacheCade™ software and MegaRAID FastPath™ software boost transactional I/O performance of solid state disk configurations, while MegaRAID Recovery software and MegaRAID SafeStore™ software enable enhanced data protection and security.

#### 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.

## MegaRAID® SAS 9280-24i4e

<b>Solution Provided</b>	Twenty-four port internal / Four-port external SATA+SAS solution for internal drive storage and external JBOD expansion using up to 240 SAS and/or SATA drives	
<b>Physical Dimensions</b>	Half-Length, Full Height (6.6" x 4.376")	
<b>Internal Connectors</b>	Six Mini-SAS SFF8087 4i internal connectors	
<b>External Connectors</b>	One Mini-SAS SFF8088 4x external connector	
<b>Device Support</b>	Up to 240 SAS and/or SATA 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) and LSISAS2x36 Expander	
<b>Cache Memory</b>	512MB 800MHz DDR II SDRAM	
<b>Battery Backup Unit</b>	LSIiBBU07, an intelligent battery backup module option that connects remotely to the RAID controller	
<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 arrays 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> </ul>	<ul style="list-style-type: none"> <li>• SSD Support with SSD Guard™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 Reversible 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 (45°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>	
<b>MTBF</b>	900,264 Hours	
<b>Ordering Information</b>	LSI00211 (Single-pack)	

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

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

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