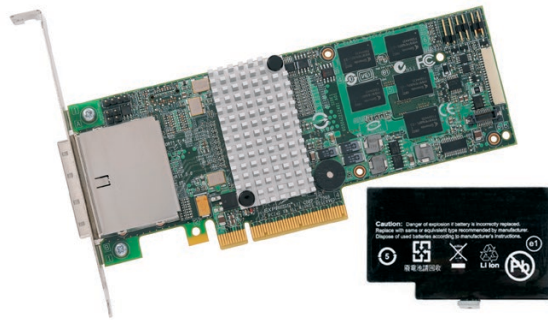


# ServeRAID M5025 SAS/SATA Controller

Protect business-critical data with the industry's most trusted RAID controllers



Today's newest external enclosure designs are based on architectures that support both SATA and SAS drives. The ServeRAID™ M5025 SAS/SATA Controller, with eight external SATA/SAS ports, is ideal for configuring these external enclosures with your choice of hard drives. With data transfer rates of up to 6 Gbps per port, the ServeRAID M5025 SAS/SATA Controller brings users new features and improved performance, while continuing to support the features of the previous 3 Gbps generation.

## 6 Gbps performance advantage

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

## Intuitive RAID management utility

MegaRAID Storage Manager provides the essential software tools to efficiently manage ServeRAID products, whether deployed in an enterprise or small business. Lenovo offers a collection of applications and tools including a preboot setup utility and a full spectrum of online RAID management utilities. This suite of applications allows 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.

## Maximizing investments

To help optimize technology investments, Lenovo offers a single point of serviceability backed by renowned education, support and training. In addition, the ServeRAID M5025 SAS/SATA Controller is part of the ServerProven® program, enabling compatibility among a variety of products.



## Specifications

Part number	46M0830
Number of ports	Two external x4 SFF-8088 ports
Processor	LSI SAS2108
Cache	512 MB 800 MHz DDR-2 with ECC
Data retention time	48 hours
Interface	SAS 6 Gbps
Host bus interface	PCIe 2.0 x 8
Drives supported	Up to 240 devices
Supported RAID levels	RAID-0, -1, -10, -5, -50 (optional -6, -60)
Key RAID data protection features	<ul style="list-style-type: none"> <li>• 64 logical drive support</li> <li>• Up to 64 TB LUN support</li> <li>• Configurable stripe size up to 1 MB</li> <li>• DDF compliant Configuration on Disk (COD)</li> <li>• S.M.A.R.T support</li> </ul>
Management	MegaRAID Storage Manager, MegaCLI, WebBIOS and pre-boot CLI
Supported servers	Visit the ServerProven page for the latest supported servers at: <a href="http://ibm.com/servers/eserver/serverproven/compat/us/">ibm.com/servers/eserver/serverproven/compat/us/</a>
Operating systems	Red Hat Enterprise Linux, Novell SUSE Linux Enterprise Server, Microsoft Windows, VMware ESX and ESXi Server
Form factor	PCIe low profile
Limited warranty	1-year limited warranty, or when installed in a System x® server these cards assume your system's base warranty and any ServicePac® upgrade

## Why System x

System x is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. System x also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

## For more information

To learn more about the ServeRAID M5025 SAS/SATA Controller, contact your Business Partner or visit [lenovo.com/thinkserver](http://lenovo.com/thinkserver)

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