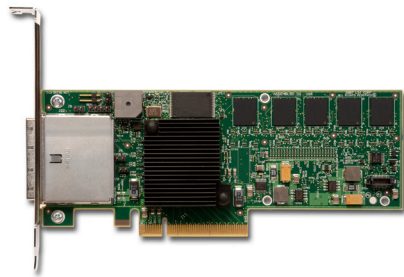
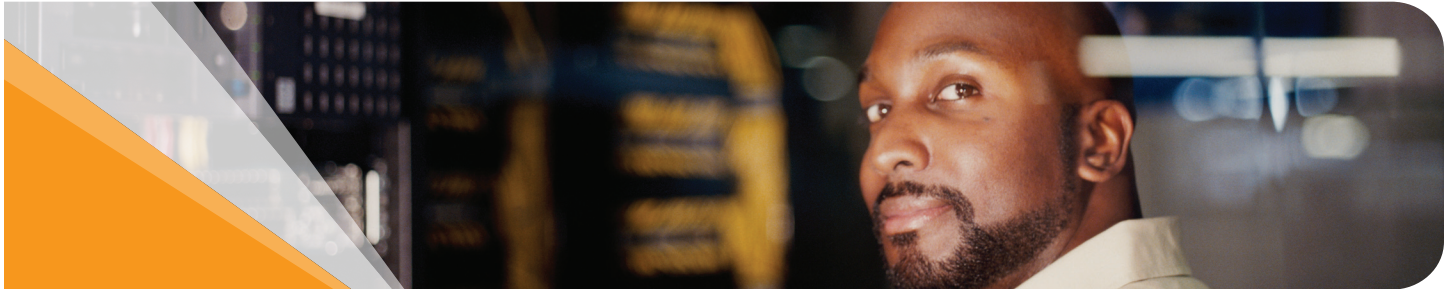


MegaRAID® SAS 8880EM2

Eight-Port 3Gb/s PCI Express SAS/SATA RAID On Chip Adapter



Industry's Most Trusted SAS/SATA RAID Adapters for External Enclosure Connectivity

KEY ADVANTAGES

- Eight-port LSI SAS1078 storage processor with RAID 5 and RAID 6
- Low-profile MD2 form factor – best fit for high density servers
- Fastest cache available – 667MHz DDRII
- Two external Mini-SAS connectors supporting up to 240 SAS and/or SATA drives

FEATURES

- Eight external SAS/SATA ports
- Two Mini-SAS x4 connectors (SFF8088)
- 3Gb/s throughput per port
- LSI SAS1078 RAID on Chip
 - 500MHz PowerPC
 - Hardware RAID 5 & 6 engine
- x8 PCI Express Host Interface
- 512MB 667MHz DDRII cache memory
- Optional battery backup module
 - Direct attach
 - Rated 72 hours
- Connect up to 240 SAS and/or SATA drives
- RAID levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60
- Auto-resume on array rebuild
- Auto-resume array reconstruction
- Online Capacity Expansion (OCE)
- RAID Level Migration (RLM)
- Import foreign arrays
 - MegaRAID Entry, Value, Feature and IR supported
- Create 64 logical volumes
- Up to 64TB LUN support
- Comprehensive management tools
- Audible alarm circuit
- Extensive online configuration options
 - Advanced monitoring and event notification

SAS/SATA RAID for External Enclosures

Today's newest external enclosure designs are based on architectures that support both SATA and SAS hard drives. The MegaRAID SAS 8880EM2, with eight external SAS/SATA ports, is the ideal solution for configuring these external enclosures with either high-performance SAS drives or high-capacity SATA drives. This second-generation MegaRAID adapter features an LSI SAS1078 storage processor, the fastest DDRII memory available today, and a x8 PCI Express host interface to provide the ultimate performance for external applications. Since system builders can use the MegaRAID SAS 8880EM2 to support one enclosure design that can be populated with either SAS or SATA hard drives, they can ultimately reduce the total cost of ownership, maximize the overall value of the investment, and reduce the number of supported skus.

RAID 6 for Advanced Data Protection

The MegaRAID SAS 8880EM2 supports all key RAID levels including RAID 6 and 60 for increased fault tolerance. RAID 6 tolerates two simultaneous drive failures, and thus the ability to manage unrecoverable media errors during re-builds. This is particularly useful when using a lot of high-capacity SATA disk drives.

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 new 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.

Intelligent Battery Backup Support

The MegaRAID LSIIIBBU07 is a battery-backup module that protects the integrity of the cached data on a MegaRAID controller in the event of a complete power or server failure. This add-on module, which connects directly to the adapter, has the added functionality to automatically charge the battery pack and communicate with the host system the battery status, such as voltage, temperature, and capacity.

Solution Provided	Eight-port SAS RAID solution for servers and workstations requiring the flexibility to use either SAS and/or SATA drives in external storage environments	
Environment	External storage sub-systems with up to 240 SAS or 3Gb/s SATA drives	
Physical Dimensions	MD2 Low profile (6.6" X 2.536")	
Connectors	Two Mini-SAS SFF8088 x4 external connectors	
Device Support	Up to 240 devices supported	
Host Bus Type	x8 lane PCI Express 1.0a compliant PCI Power Management Specification 1.1 compliant	
Data Transfer Rates	Up to 3Gb/s per port	
I/O Processor/SAS Controller	LSI SAS1078 RAID on Chip (ROC)	
Cache Memory	512MB 667MHz DDR II SDRAM	
Battery Backup Unit	LSIiBBU07, an intelligent battery backup module option that directly connects to the adapter	
Key RAID Data Protection Features	<ul style="list-style-type: none"> ■ RAID levels 0, 1, 5, and 6 ■ RAID spans 10, 50 and 60 ■ Online Capacity Expansion (OCE) ■ Online RAID Level Migration (RLM) ■ Auto resume after loss of system power during arrays array rebuild or reconstruction (RLM) ■ Configurable stripe size up to 1MB ■ Fast initialization for quick array setup ■ Check Consistency for background data integrity ■ Patrol read for media scanning and repairing ■ 64 logical drive support 	<ul style="list-style-type: none"> ■ Up to 64TB LUN support ■ DDF compliant Configuration on Disk (COD) ■ S.M.A.R.T support ■ Hot Spare support <ul style="list-style-type: none"> – Automatic rebuild – Global and dedicated – Enclosure affinity – Emergency SATA hot spare for SAS arrays ■ Enclosure management <ul style="list-style-type: none"> – SES (inband) – SGPIO (sideband)
Operating Temperature	Maximum ambient: 50°C (40°C w/iBBU)	
Operating Voltage	+3.3V	
Warranty	3 years, free advanced technical support, advanced replacement option	
Regulatory Certifications	EN55022, EN50082, EN60950; FCC Class A, Class B; UI1950; UL; CSA C22.2; VCCI; AS3548; BSMI; MIC	
RAID Management	MegaRAID Management Suite <ul style="list-style-type: none"> ■ MegaRAID Storage Manager ■ MegaCLI (command-line interface) ■ WebBIOS 	
OS Support	Extensive support includes Microsoft® Windows® Vista/Server 2003/2000/XP, Linux®, Solaris (x86) and more. * Visit the LSI download Center for the most complete list of supported operating systems: lsi.com/support	



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