

Overview



Models

LSI MegaRAID® 9260-8i SAS 6Gb/s ROC RAID Card
Optional: LSI iBBU08 Battery Backup Unit for LSI 9260-8i

WE465AA
LA783AA

Introduction

The LSI MegaRAID® SAS 9260-8i, 6Gb/s eight port, ROC (RAID on Chip) controller is a next generation high bandwidth storage option, ideal for storage connectivity of SAS drives in high performance workstations.

The LSI 9260-8i design has more than 2X the RAID 5 Write bandwidth of the older LSI 8888ELP RAID card. HP performance testing confirmed the increase in performance.*

The LSI MegaRAID® 9260-8i is designed to excel in both high I/O transaction and high bandwidth processing. With an integrated 800MHz PowerPC, 800MHz 512MB write cache, and x8 PCI (Gen2) V2.0 Express, the 9260 delivers impressive performance numbers - up to 2,875MB/s Reads and up to 1,850MB/s Writes - allowing streaming data, video or data backup applications to run faster than ever.**

The MegaRAID 9260-8i features the LSI SAS2108 RAID-on-Chip (ROC), a powerful I/O storage engine that transparently performs all the data protection, data checking, and restoration tasks.

You can also ensure that your data is protected in the event of a sudden power failure with the optional LSI iBBU08 Battery Backup Unit (mounts on the LSI 9260-8i). This will protect unwritten information in the controller cache for up to 48 hours. An investment in the LSI 9260-8i and the Battery Backup Unit brings piece of mind.

* Performance information based on the upper performance range of the LSI 9260-8i card for RAID 5. This is hard drive and configuration dependent.

** May require more storage drives than can be installed in the HP Workstations.

Overview

Key Features and Benefits

- 6Gb/s per port, 8 internal ports via two Mini-SAS SFF-8087 connectors
- Support for SATA & SAS 3Gb/s or 6Gb/s drives via the HP supplied internal adapter cables
- LSI SAS2108 6Gb/s RAID-on-Chip - 800MHz PowerPC®
- 512MB 800MHz DDRII onboard cache - HW XOR (exclusive OR) RAID 5 write parity calculations off load the system processor for improved performance
- RAID Levels 0, 1, 5 and 6
- RAID Spans 10, 50 and 60
- Optional: LSI iBBU08 Battery Backup Unit, HP Part Number LA783AA
- LSI iBBU08 - Higher maximum ambient temperature tolerance (up to 55 C versus 45 C) than previous generation battery backup units
- Supports major Operating Systems

Typical Applications

- Video-On-Demand
 - Video-Surveillance
 - Video Creation + Editing
 - Medical Imaging
 - High-Performance Computing
 - Digital Content Archive
 - Storage Appliance
 - File, Web, Database, and Email Servers
-

Compatibility

The LSI 9260-8i SAS 6Gb/s ROC RAID Card is compatible with the HP Z800, Z600 and Z400; HP Z820, Z620, Z420. Supports >2.2TB RAID Data Arrays with large capacity drives, 1TB, 2TB, 3TB.

Service and Support

The LSI SAS 9260-8i card has a one-year limited warranty or the remainder of the warranty of the HP product in which they are installed (up to 3 years; whichever is longer).

The Optional LSI iBBU08 Battery Backup Unit has a one year warranty from date of purchase.

Technical support is available seven days a week, 24 hours a day by phone, as well as in online support forums. Certain restrictions and exclusions apply.

Technical Specifications

PCI Bus	PCI-Express (Gen2) V2.0 x8 lanes
PCI Modes	Bus Master DMA
RAID Levels	RAID 0, 1, 5, and 6 RAID spans 10, 50 and 60
PCI Data Burst Transfer Rate	Up to 4GB/s
PCI Card Type	Low profile, single PCIe slot design with full height bracket.
	The optional iBBU08 Battery Backup unit mounts on the controller card and the assembly remains within a single PCIe slot width.
PCI Voltage	+3.3V Add-in Card
PCI Power	12.5 Watts
Certification Level	PCI-Express 2.0
IO Bus	Eight 3 Gb/s and 6Gb/s compatible SAS/SATA ports
Internal Connectors	Two SAS SFF8087 x4
External Connectors	None
Maximum Number of SCSI Devices	32. NOTE: HP Workstations do not support this many internal drives.
LED Indicators	Connector LEDs indicate whether the internal connector is active for ports 0-3 and 4-7
Temperature	Operating 32° to 122° F (0° to 50° C) Storage -49° to +221° F (-45° to +105° C)
Relative Humidity	Operating 5% to 90% non-condensing Storage 5% to 90% non-condensing
Compliances	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
Operating System Support	Microsoft® Windows® XP Professional, XP Professional 64-bit Genuine Windows Vista® Business 32-bit and 64-bit Genuine Windows 7 Professional 32-bit and 64-bit. Red Hat Enterprise Linux 4, 5, 6 (Desktop) Novell SLED 11
Kit Contents	LSI MegaRAID® 9260-8i SAS 6Gb/s ROC RAID Card: Controller card, driver CD, drive adapter cables for the HP Z800/Z600 and Z400, user documentation and warranty information. Optional LSI iBBU08 Battery Backup Unit: Battery module (Li-Ion), mounting hardware, installation instructions and warranty information.

Technical Specifications

© Copyright 2012 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

The LSI Logic logo design and Fusion-MPT are trademarks or registered trademarks of LSI Logic Corporation. Microsoft and Windows are US registered trademarks of Microsoft Corporation. All other brand and product names may be trademarks of their respective companies.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.