Overview

Models

LSI 9270-8i SAS 6Gb/s ROC RAID Card	E0X21AA
LSI iBBU09 Battery Backup Unit	E0X19AA

Introduction

High performance computing environments today require increased storage capacity and are challenged to protect and deliver the data as quickly as possible to meet the needs of applications and end users. To address these performance demands as capacity scales, the newest 6Gb/s SAS/SATA RAID controllers from LSI offer a powerful combination of intelligent performance, enterprise RAID data protection and proven interoperability with the latest workstation and server platforms, based on the PCIe 3.0 specification. The LSI 9270-8i, with eight internal ports, delivers two 800MHz PowerPC processor cores and a 72-bit DDRIII interface that drives 1GB cache memory. Powered by the LSISAS2208 dual-core ROC, the 9270-8i controller includes the latest PCIe 3.0 and 6Gb/s SAS/SATA technology and helps users to maximize the performance benefits of solid state storage.

Standard support for the most popular RAID level and accessories, including RAID 5, RAID 6, and battery backup, further strengthen the data protection capabilities of the MegaRAID SAS 9270-8i. the intelligent LSIiBBU09 battery backup unit uses heat-tolerant cell technology to withstand ambient temperatures up to 55 degrees Celsius while protecting the integrity of the cache memory in the event of a power failure.

Key Features and Benefits

- Eight internal 6Gb/s SATA+SAS ports
- 1GB DDRIII cache memory
- PCIe 3.0 Host Interface
- Two Mini-SAS internal connectors (SFF8087)
- RAID levels 0, 1, 5, 6, 10, 50, 60
- Support for optional heat-tolerant battery backup module (iBBU09)

Compatibility

The LSI 9270-8i SAS 6Gb/s ROC RAID Card is compatible with the HP Z820, Z620, and Z420. Supports >2.2TB RAID Data Arrays with large capacity drives, 1TB, 2TB, 3TB.

Service and Support

The LSI 9270-8i SAS 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; which ever is longer).

The Optional LSI iBBU09 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	x8 lane PCIe 3.0 compliant	
RAID Levels	RAID 0, 1, 5, and 6 RAID spans 10, 50 and 60	
PCI Card Type	Low profile, single PCIe slot design with full height bracket.	
PCI Voltage	+3.3V Add-in Card	
PCI Power	+3.3V, +12V	
Certification Level	PCI-Express 3.0	
IO Bus	Eight 6Gb/s and 3Gb/s compatible SAS/SATA ports	
SAS Processor	LSISAS2208 Dual-Core RAID on Chip (ROC)	
Internal Connectors	Two SAS SFF8087 x4 (Mini-SAS)	
External Connectors	None	
Maximum Number of SCSI Devices	Up to 128 SAS and/or SATA hard drives and SSDs **NOTE:** HP Workstations do not support this many internal drives.	
LED Indicators	Heartbeat LED on card	
Temperature	**Operating**	Maximum ambient: Controller Card: 60°C (55°C with optional LSIiBBU09)
	Storage	-45° to +105° C
Relative Humidity	**Operating**	5% to 90% non-condensing
	Storage	5% to 90% non-condensing
MTBF	766,841 hours	
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® Genuine Windows 7 Professional 32-bit and 64-bit. Red Hat Enterprise Linux 4, 5, 6 (Desktop) Novell SLED 11	
Kit Contents	LSI 9270-8i SAS 6Gb/s ROC RAID Card: Controller card, driver CD, drive adapter cables for the HP Z820/Z620 and Z420, user documentation and warranty information.	