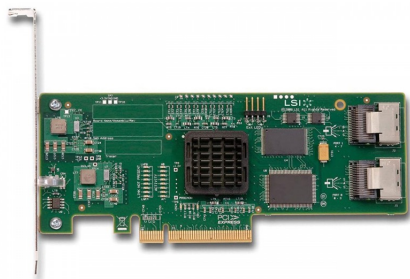# Broadcom SAS3081E-R Datasheet

Broadcom LSI SAS3081E-R LSI00151 PCI Express x8 LSISAS1068E 8-port 3Gb/s SAS Host Bus Adapter

SAS3081E-R

The LSI SAS3081E-R card provides the greatest available throughput to internal server storage arrays through eight internal 3 Gb/s ports, driving up to 244 SAS and SATA devices. This card offers dynamic SAS functionality including dual-port drive redundancy and SATA compatibility. Utilizing SFF-8087 miniSAS connectors, the low-profile SAS3081E-R is an excellent fit for 1U/2U servers driving up to 4800 MB/s full-duplex.

The LSISAS3081E-R doubles the performance of today's dual channel Ultra320 SCSI HBAs by connecting an 8-lane 2.5Gb/s PCI Express bus with eight 3Gb/s SAS/SATA ports. It also offers leading SAS and SATA RAID and non-RAID data off-load for medium to high-capacity internal server storage applications. The LSISAS3081E-R is ideal for today's data centers and leverages existing SCSI infrastructure for investment protection and ease of migration. The serial interface allows for point-to-point connectionsoffering higher performance, increased aggregate bandwidth, higher availability with dual-ported drives, and enhanced reliability when compared to parallel SCSI. The LSI SAS HBA will support 1.5 and 3Gb/s SAS and SATA hard disk drives.

The SAS interface provides universal intercon nect with Serial ATA, while still offering logical SCSI compatibility along with the reliability, performance and manageability available with SAS drives. Common electrical and physical connections allow for the application to dictate the technology of choice for disk drives.

Features

- 3 Gb/s per port
- Two internal miniSAS connectors
- Connects to both SAS and SATA Hard Disks Drives
- Fusion-MPT architecture Integrated RAID 0, 1, 1E, and 10E
- Allows up to 244 total end-point devices

Benefits

- Supports all major Operating Systems
- Delivers 2400 MB/s to enclosures, 4800 MB/s full duplex
- Low-Profiles MD2 form factor PCI card
- Ultimate SAS/SATA flexibility from 8 internal ports
- Integrated RAID avoids additional host CPU overhead

Specifications

- Product: LSISAS3081E-R 3Gb/s SAS Eight-Port Host Bus Adapter
- P/N: LSI00151
- PCI Bus: PCI Express
- PCI Modes: Bus Master DMA
- PCI Card Type: 3.3 Volt Add-in Card
- PCI Voltage: +12V ±10%
- PCI Form Factor: 6.6" x 2.5" (Low Profile)
- PCI Power: 10W
- Bracket: Full Height and Low Profile
- PCI Certification: PCI Express 1.0a
- SAS Bus: Eight 3Gb/s SAS/SATA Ports
- SAS Controller: LSISAS1068E
- Connectors

- - Internal: Two – x4 Connectors (SFF-8087)
  - External: N/A
- LED Indicators:
  - Eight – Internal Activity per PHY
  - Eight – Internal Fault per PHY
- Integrated RAID Levels: RAID 0, 1, 1E and 10E
- Max. Number of Physical Devices: 244
- Environments
  - Operating: 0°C to 60°C, 5 to 90% Non-condensing
  - Storage: -45°C to 105°C, 5 to 90% Non-condensing
- MTFB: >200,000 Hours
- Compliances: EMC:EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/ New Zealand (AS/NZS 3548); Safety: EN60950
- Operating System Support: All OS drivers are backed by extensive testing and validation to ensure optimum system performance. For a list of the most current supported drivers, visit: lsi.com/support

For more information of this Broadcom LSISAS3081E-R, please visit Broadcom website: https://docs.broadcom.com/doc/12352186

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