

# Broadcom 9207-8i Datasheet



Broadcom LSI 9207-8i LSI00301 PCIe 3.0 x8 SAS2308 8 Internal Ports 6Gb/s SAS+SATA Host Bus Adapter

9207-8i

The LSI SAS 9207-8i PCI Express (PCIe)-to-Serial Attached SCSI (SAS) host bus adapter (HBA), referred to as the LSI SAS 9207-8i HBA, provides high-performance internal storage connectivity for servers and workstations. The LSI SAS 9207-8i HBA provides eight lanes of 6Gb/s SAS storage connectivity and is matched with eight lanes of PCIe 3.0 8Gb/s host connectivity. The low-profile design of the SAS HBA includes a full-height bracket and low-profile mounting bracket that creates a universal fit for any server. The LSI SAS 9207-8i HBA is based on the Fusion-MPT™ architected LSI SAS 2308 controller that integrates the latest enhancements in PCIe 3.0 technology and 6Gb/s SAS technology.

The LSI SAS 9207-8i HBA has onboard Flash memory for the firmware and BIOS.

## Features

- Implements one LSI SAS 2308 eight-port 6Gb/s to PCIe 3.0 controller
- Supports eight-lanes, full-duplex PCIe 3.0 performance
- Supports eight internal 6Gb/s SATA+SAS ports
- Supports SAS link rates of 1.5Gb/s, 3.0Gb/s, and 6.0Gb/s
- Provides two x4 internal mini-SAS connectors (SFF-8087) with sidebands
- Supports up to 256 SATA or SAS end devices

- Offered with a full-height bracket and low-profile vented bracket
- Provides one heartbeat LED
- Uses sideband signals in multilane connectors to support serial general purpose input/output (SGPIO)

## Specifications

- Product: SAS 9207-8i Host Bus Adapter
- OPN: LSI00301
- I/O Controller: SAS 2308/ Fusion MPT 2.0
- Storage Connectivity; Data Transfer Rates: 8 ports, 6Gb/s SAS 2.1 Compliant
- SAS Bandwidth: Half Duplex, 600 MB/s per lane
- Port Configurations:
  - 8 ea, x1 ports (individual drives)
  - 2 ea, x4 wide port
- Host Bus: x8 lane, PCI Express 3.0 compliant
- PCI Data Burst Transfer Rates: Half Duplex, 8000MB/s, x8, PCIe 3.0
- Physical Dimensions: Low Profile (2.6" x 6.6")
- Connectors: Two mini-SAS internal connectors (SFF8087)
- Brackets: Full height and low profile
- Cable Support: Passive Copper
- PCI Card Type: 3.3 V Add-in Card
- Operating Voltage: +12V +/-8%; 3.3V +/-9%
- PCI Power (Nominal): 9.8W
- Device Support: 256 Non-RAID SAS/SATA devices
- Environmental
  - Operating:
    - 0°C to 55°C
    - 5 to 90% Non-condensing
  - Storage:
    - -45°C to 105°C
    - 5 to 90% Non-condensing
- MTBF: >2,000,000 Hours
- Regulatory Certifications: EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS 3548); Korea (N-B 2-0001-404); Safety: EN60950; RoHS; WEEE

- OS Support: Microsoft Windows, Linux (SuSE , Red Hat), Solaris, VMware. See <http://www.lsi.com/support/pages/download-search.aspx> for details on versions

For more information of this Broadcom SAS 9207-8i Host Bus Adapter, please visit Broadcom website:

<https://docs.broadcom.com/doc/12353331>

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