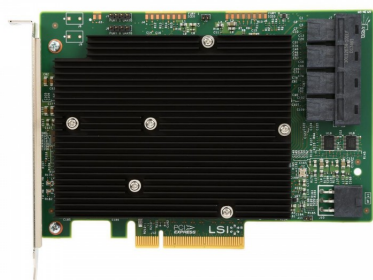# Broadcom 9300-16i Datasheet

Broadcom LSI 9300-16i 05-25600-00 LSI00447 PCIe 3.0 x8 SAS3008 16 Internal Ports 12Gb/s SAS Host Bus Adapter

9300-16i

The LSI SAS 9300-16i PCI Express (PCIe)-to-Serial Attached SCSI (SAS) host bus adapter (HBA), referred to as the LSI 12Gb/s SAS HBA, provides high-performance internal storage connectivity for servers and workstations. The LSI 12Gb/s SAS HBA provides sixteen lanes of 12Gb/s SAS connectivity and is matched with eight lanes of PCIe 3.0 8Gb/s performance. The LSI 12Gb/s SAS HBA is based on the Fusion-MPT™-architected LSI SAS 3008 controller that integrates the latest enhancements in PCIe 3.0 technology and 12Gb/s SAS technology.

Features

- Implements two LSI SAS 3008 eight-port 12Gb/s SAS to PCIe 3.0 controllers
- Supports eight-lane, full-duplex PCIe 3.0 performance
- Supports sixteen internal 12Gb/s SATA+SAS ports
- Supports SATA link rates of 3Gb/s and 6Gb/s
- Supports SAS link rates of 3Gb/s, 6Gb/s, and 12Gb/s
- Provides four x4 internal mini-SAS HD connectors (SFF-8643)
- Supports passive copper cable
- Supports up to 1024 SATA or SAS end devices
- Offered with a full-height bracket
- Provides two heartbeat LEDs

Specifications

- Product: SAS 9300-16i Host Bus Adapter

- Manufacturer Part #: 05-25600-00

- I/O Controller: Two, SAS 3008/ Fusion MPT 2.5

- Port Count: 16-port, internal

- Connectors: Mini-SAS HD SFF8643 Four (x4)

- Storage Connectivity Data Transfer Rates: 12Gb/s SAS 3.0 Compliant

- SAS Bandwidth: Half Duplex (x16 wide bus) 19200 MB/s

- Port Configurations

    - 16 ea, x1 ports (individual drives)

    - 4ea, x4 wide ports

    - 2 ea, x8 wide ports

- Host Bus: x8 lane, PCIe 3.0

- PCI Data Burst Transfer Rates

    - Half Duplex

    - x8, PCIe 3.0, 8000 MB/s

- Form Factor: Full height

- Physical Dimensions: 4.4" x 6.1"

- Brackets: Full Height

- Cable Support: Passive Copper, Active Optical

- LED Management: Reference SFF-8485 (SGPIO) compliant

- Operating Voltage: +12V +/-8%; 3.3V +/-9%

- PCI Power (Nominal): 27W

- Device Support: 1024 Non-RAID devices

- Environmental

    - Operating: 0°C to 55°C

    - Storage: -45°C to 105°C

    - 5 to 90% Non-condensing

    - Airflow: 200 LFM

- MTBF: >2,500,000 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, FreeBSD See http://www.lsi.com/support/pages/download-search.aspx for details on versions * The HBA supports Solaris 10 and Oracle® provides a built in driver; installation of an LSI driver is not required. For more information on the Oracle Solaris 10 driver and installation, sign in at the following Oracle link: https://support.oracle.com/ Contact Oracle support for Oracle driver or software support.

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