

# Broadcom 9206-16e Datasheet



Broadcom LSI 9206-16e LSI00299 PCIe 3.0 x8 SAS2308 16 External Ports 6Gb/s SAS+SATA Host Bus Adapter

9206-16e

The LSI SAS 9206-16e PCI Express (PCIe)-to-Serial Attached SCSI (SAS) host bus adapter (HBA), referred to as the LSI SAS 9206-16e HBA, provides high-performance external storage connectivity for servers and workstations. The LSI SAS 9206-16e HBA provides sixteen 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 9206-16e 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 9206-16e HBA has onboard Flash memory for the firmware and BIOS.

## Features

- Implements two LSI SAS 2308 eight-port 6Gb/s to PCIe 3.0 controllers
- Supports 8-lanes, full-duplex PCIe 3.0 performance
- Supports sixteen external 6Gb/s SATA+SAS ports
- Supports SAS link rates of 1.5Gb/s, 3.0Gb/s, and 6.0Gb/s
- Provides four x4 external mini-SAS HD connectors (SFF-8644)
- Supports active copper cable, passive copper cable, and optical cable

- Supports up to 1024 SATA or SAS end devices
- Offered with a full-height bracket and low-profile vented bracket
- Provides two heartbeat LEDs

## Specifications

- Product: SAS 9206-16e Host Bus Adapter
- OPN: LSI00299
- I/O Controller: Two, LSI SAS2308/ Fusion MPT 2.0
- Storage Connectivity; Data Transfer Rates: 16 ports; 6Gb/s SAS 2.1 compliant
- SAS Bandwidth: Half Duplex, 2400MB/s, x4, 6Gb/s SAS lanes
- Port Configurations:
  - 16 ea, x1 ports (individual drives)
  - 4 ea, x4 wide ports
  - 2ea , x8 wide ports
- Host Bus: x8 lane, PCI Express 3.0 compliant
- PCI Data Burst Transfer Rates: Half Duplex, 8000MB/s, x8, PCIe 3.0
- Physical Dimensions: 68.90 x 167.65 mm
- Connectors: Four (x4) mini-SAS HD external connector (SFF8644)
- Brackets: Full height and low profile
- Cable Support: Passive Copper, Active Copper, Active Optical
- PCI Card Type: 3.3 V Add-in Card
- Operating Voltage: +12V +/-8%; 3.3V +/-9%
- PCI Power (Nominal): 25.8W
- Device Support: 1024-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: >1,300,000 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/channel/ChannelDownloads> for details on versions

For more information of this Broadcom SAS 9206-16e Host Bus Adapter, please visit Broadcom website:

<https://docs.broadcom.com/doc/12353328>

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