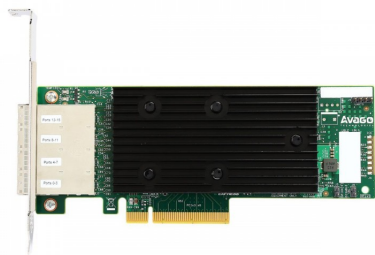


Broadcom 9305-16e Datasheet



Broadcom Avago 9305-16e 05-25704-00 PCIe 3.0 x8 SAS3216 16 External Ports 12Gb/s SAS Host Bus Adapter

9305-16e

The Avago SAS 9305-16e PCI Express (PCIe)-to-Serial Attached SCSI (SAS) host bus adapter (HBA), referred to as the Avago 12Gb/s SAS HBA, provides high-performance internal storage connectivity for servers and workstations. The 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 low-profile design of the SAS HBA includes a full-height mounting bracket and a low-profile mounting bracket that create a universal fit for any server. The 12Gb/s SAS HBA is developed on the Fusion-MPT-based SAS 3216 controller that integrates the latest enhancements in PCIe 3.0 technology and 12Gb/s SAS technology.

Features

- Implements one SAS 3216 sixteen-port 12Gb/s SAS to PCIe 3.0 controller
- Supports eight-lane, full-duplex PCIe 3.0 performance
- Supports sixteen external 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 sixteen x4 external mini-SAS HD connectors (SFF-8644)
- Supports passive copper cable, active copper cable, and optical cable
- Supports up to 1024 SATA or SAS end devices
- Offered with a full-height bracket and a and a low-profile vented bracket
- Provides one heartbeat LED
- Provides a universal asynchronous receiver/transmitter (UART) debug/diagnostic port

Specifications

- Product: SAS 9305-16e
- MPN: 05-25704-00
- I/O Controller: SAS 3216/ Fusion MPT 2.5
- Port Count: 16-port, external
- Connectors: Mini-SAS HD SFF8644 Four (x4)
- Storage Connectivity Data Transfer Rates: 12Gb/s SAS 3.0 Compliant
- SAS Bandwidth: 1200 MB/s per port (each direction)
- Port Configurations
 - 16 ea, x1 ports (individual drives)
 - 4 ea, 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: Low Profile
- Physical Dimensions: 2.7" x 6.6"
- Brackets: Low Profile & Full Height
- Cable Support: Passive Copper, Active Copper, Active Optical
- LED Management: SES
- Operating Voltage: +12V +/-8%; 3.3V +/-9%
- PCI Power (Nominal): Typical: 13.0W
- 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: >3,500,000 hours at 40°C
- Regulatory Certifications: USA (FCC 47 CFR part 15 Subpart B, class B); Canada (ICES -003, Class B); Taiwan (CNS 13438) ; Japan (VCCI V-3); Australia/New Zealand (AS/NZS CISPR 22);Korea (RRA no 2013-24 & 25); Europe (EN55022/EN55024); Safety: EN/ IEC/UL 60950; RoHS; WEEE
- OS Support: Microsoft Windows, Linux (Oracle, SuSE , Red Hat), Solaris, VMware, FreeBSD, CentOS, Canonical, Citrix, FreeBSD, Fedora, Debian

For more information of this Broadcom SAS 9305-16e, please visit Broadcom website:

<https://docs.broadcom.com/doc/pub-005244>

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