Broadcom 9500-16e Datasheet

Broadcom LSI 9500-16e 05-50075-00 PCIe 4.0 x8 SAS3816 16 External Ports 12Gb/s SAS, 6Gb/s SATA, Gen 4.0 PCIe(NVMe) Tri-Mode HBA

9500-16e

The 9500-16e Tri-Mode, PCIe Gen 4.0 HBA with 16 external ports is ideal for increased connectivity and maximum performance for enterprise data center flexibility.

With increased bandwidth and IOPS performance over previous generations, the 9500-16e adapter delivers the performance and scalability needed by critical applications.

- Connects up to 1024 SAS/SATA devices or 32 NVMe devices
- Provides maximum connectivity and performance for high-end servers and applications
- Support critical applications with the bandwidth of PCIe 4.0 connectivity
- Universal Bay Management (UBM) Ready

Features

- Tri-Mode Storage Interface

- 12Gb/s SAS
  - 6Gb/s SATA
  - Gen 4.0 PCIe (NVMe)
- Hardware Secure Boot
- Universal Bay Management (UBM) ready (SFF-TA-1005)
- 13,700 MBs (256K Seq Rd)
- 3M IOPs (4K RR)
- x8 PCIe Gen 4.0 Host Interface
  - Supports x8, x4, x2, x1 PCIe lanes at a transfer rate up to 16.0 GT/s per lane, full duplex
  - Lane and polarity reversal
- SFF-9402 Compliant Connector Pin-out
- Up to 1024 SAS/SATA devices
- Up to 32 NVMe devices
- Form Factor Friendly Cable Exit

Applications

- High-port direct attached connectivity applications
- Enterprise Databases
- Analytics Applications
- Medical Imaging
- Media Applications
- Flexible solutions for cloud computing

Specifications

- Product: HBA 9500-16e
- Manufacturer Part #: 05-50075-00
- Lifecycle: Active
- Brackets: Full height and low profile
- Devices Supported: SAS/SATA: 1024, NVMe: 32
- External Connectors: 4 x4 SFF-8644 (ext HD)
- External Ports: 16

- Generation: 12 Gb/s
- Host Bus Type: x8 lane PCI Express 4.0
- I/O Controller: SAS3816
- Management Software: LSI Storage Authority (LSA), StorCLI (Command-Line Interface), HII (UEFI Human Interface Infrastructure)
- MTBF: > 5,000,000 hours at 40° C
- Operating Humidity: 20% to 80% Non-condensing
- Operating Temperature°C: 0°C to 55°C
- OS Support: Microsoft Windows, VMware vSphere/ESXi, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, Ubuntu Linux, CentOS Linux, Citrix XenServer, Debian Linux, Oracle Enterprise Linux, Fedora, FreeBSD
- Physical Dimensions: 6.600" x 2.712"
- Regulatory Certifications: Australia/New Zealand (AS/NZS CISPR 22), Canada ICES-003 Class B, CE Europe (EN55022/EN55024), Europe (EN55022/EN55024), Japan (VCCI V-3), Korea (RRA no 2013-24 & 25), RoHS, Safety: EN/IEC/UL 60950, Taiwan (CNS 13438), USA (FCC 47 CFR part 15 Subpart B, class B), WEEE
- Typical Power: 8.74W
- Warranty: 3 years, free technical support, advanced replacement option at broadcom.com/support/warranty/internal-raid-hba
- What's in the box: 9500-16e HBA, Low Profile Bracket, FH (attached)

For more information of this Broadcom 9500-16e, please visit Broadcom website:

https://www.broadcom.com/products/storage/host-bus-adapters/sas-nvme-9500-16e

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