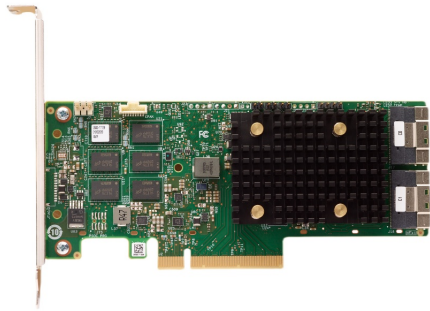


Broadcom 9560-16i Datasheet



Broadcom LSI 9560-16i 05-50077-00 PCIe 4.0 x8 SAS3916 16 Internal Ports MegaRAID Tri-Mode RAID Controller Card

9560-16i

The MegaRAID 9500 series is the industry's first PCIe Gen 4.0 RAID adapter family, offering PCIe Gen 4.0 host and storage interfaces. The MegaRAID 9560-16i adapter, based on the SAS3916 high-port count PCIe 4.0 x8 RAID-on-Chip (RoC), delivers twice the performance of previous generations.

The 9560-16i is compatible with existing PCIe SFF-8639 Module (U.2) backplanes, allowing users to boost performance for today's ever increasing bandwidth environments. Coupled with two industry initiatives expanding the deployment of Tri-Mode SerDes technology, which enables the operation of NVMe, SAS or SATA devices in a single drive bay, the 9560-16i is instrumental in getting the most performance and flexibility out of U.3 backplanes:

- SFF-TA-10001 Specification (U.3), which defines a common bay type for SAS, SATA and NVMe
- Universal Backplane Management (UBM), which defines a common backplane control and management framework

With Tri-Mode SerDes technology, the adapter negotiates between speeds and protocols to seamlessly work with any of the three types of storage devices. Tri-Mode support provides a non-disruptive way to evolve existing data center infrastructure.

Key Features Include:

- Connect up to 240 SAS/SATA devices or 24 NVMe devices per controller
- Fits into rack-mounted servers with low-profile form factor and side-mounted SAS connectors
- Form-factor friendly cable exit
- Support critical, high-bandwidth applications with PCIe 4.0 connectivity
- Balance protection and performance for critical applications with RAID 0, 1, 5, 6, 10, 50 and 60
- JBOD mode with RAID 0, 1, 10 and JBOD for SDS environments
- Add more protection and peace of mind with CacheVault flash cache protection

Applications

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

Specifications

- Product: MegaRAID 9560-16i
- Manufacturer Part #: 05-50077-00
- Lifecycle: Active
- Distributor Inventory: No
- Cache Memory: 8GB
- Cache Protection: CacheVault CVPM05
- Data Transfer Rates: 12Gb/s SAS and 16GT/s PCIe Gen4 (NVMe) compliant
- Devices Supported: SAS/SATA: 240, NVMe: 24
- Generation: 12 Gb/s

- Host Bus Type: x8 lane PCI Express 4.0
- I/O Processor / SAS Controller: SAS3916 12Gb/s SAS Tri-Mode RAID-on-Chip (ROC)
- Internal Connectors: 2 x8 SFF-8654 (SlimSAS)
- Internal Ports: 16
- Management Software: LSI Storage Authority (LSA), StorCLI (Command-Line Interface), HII (UEFI Human Interface Infrastructure)
- MTBF: >3,000,000 hours at 40° C
- Operating Temperature°C: 0°C to 55°C
- OS: Microsoft Windows, VMware vSphere/ESXi, Red Hat Enterprise Linux, SuSE Linux, Ubuntu Linux, Citrix XenServer, CentOS Linux, Debian Linux, Oracle Enterprise Linux, Fedora, FreeBSD
- Physical Dimensions: Low profile 6.127" x 2.712"
- Regulatory Certifications: Australia/New Zealand (AS/NZS CISPR 22), Canada (ICES -003, Class B), Europe (EN55022/EN55024), Japan (VCCI V-3), Korea (RRA no 2013-24 & 25), RoHS compliant, Safety: EN/IEC/UL 60950, Taiwan (CNS 13438), USA (FCC 47 CFR part 15 Subpart B, class B), WEEE

For more information of this Broadcom 9560-16i, please visit Broadcom website:

<https://www.broadcom.com/products/storage/raid-controllers/megaraid-9560-16i>

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