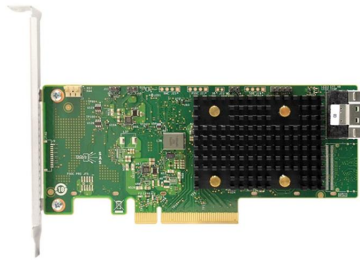


# Broadcom 9540-8i Datasheet



Broadcom 9540-8i 05-50134-03 PCIe 4.0 x8 8 Internal Ports Tri-mode Raid Controller

9540-8i

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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 9540-8i adapter, based on the SAS3808 PCIe 4.0 x8 IO Controller (IOC) device, delivers twice the performance of previous generations.

Small and medium businesses (SMBs) deploying entry-level server platforms and workstations need affordable, reliable storage solutions. The MegaRAID 9540-8i Tri-Mode Storage Adapter is a PCIe Gen 4.0 12Gb/s SAS/SATA/PCIe (NVMe) controller card that addresses these needs by delivering proven performance and RAID data protection for a range of critical applications.

The adapters' Tri-Mode SerDes technology negotiates between speeds and protocols to seamlessly to enable the operation of NVMe, SAS or SATA devices in a single drive bay getting the most performance and flexibility out of any drive protocol.

## Features

- Connect up to 63 SAS/SATA devices and 4 NVMe devices
- Balance protection and performance for critical applications with RAID 0, 00, 1, 10
- Support critical, high-bandwidth applications with PCIe 4.0 connectivity

- Advanced security through hardware secure boot

## Specifications

- Data Transfer Rates: 12Gb/s SAS and 16GT/s PCIe Gen4 (NVMe) compliant
- Devices Supported: SAS/SATA: 63, NVMe: 4
- Generation: 12 Gb/s
- Host Bus Type: x8 lane PCI Express 4.0
- I/O Processor / SAS Controller: SAS3808
- Internal Connectors: 1 x8 SFF-8654 (SlimSAS)
- Internal Ports: 8
- 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: 155.52 (+/-0.13) mm x 68.77 (+/-0.13) mm
- RAID Levels: 0, 00, 1, 10
- 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
- Typical Power: 6.0W

For more information of this MegaRAID 9540-8i, please visit Broadcom website:

<https://www.broadcom.com/products/storage/raid-controllers/megaraid-9540-8i>

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