



## Dell PowerEdge 12Gbps SAS HBA

The Dell PowerEdge 12Gbps Serial-Attached SCSI (SAS) Controller provides high-performance connectivity.

Dell PowerEdge enterprise-class controllers enhance performance, increase reliability and fault tolerance and simplify management, providing a powerful and easy-to-manage way to create a robust infrastructure and help maximize server uptime. The Dell PowerEdge 12Gbps SAS Host Bus Adapter (HBA) is part of the Dell PowerEdge 12Gbps SAS Controller family.

### Manage data overload

Providing up to 12Gbps throughput and improved hardware performance, the PowerEdge 12Gbps SAS Controller helps you manage demanding workloads with high-performance connectivity and flexibility for tiered storage. The PowerEdge 12Gbps SAS HBA provides connectivity support for the Dell MD34xx RBOD and the Dell MD14xx JBOD.

### Accelerate the solution

With 12Gbps data transfer rates, you can quickly and safely back up or archive your data with your choice of Dell PowerVault tape drives. The PowerEdge 12Gbps SAS HBA supports PowerVault LTO-3-060, LTO4 and LTO5 tape drives.

### Latest technology enhancements

The PowerEdge 12Gbps SAS HBA cards integrate the latest enhancements in PCI Express® (PCIe) and SAS technology. The PowerEdge 12Gbps SAS HBA complies with the T10 SAS 3.0 and the PCIe 3.0 specifications. The PCIe 3.0 host interface drives superior system performance.

### Performance advantage

The PowerEdge 12Gbps SAS HBA is backward compatible with 6Gbps SAS drives. Regardless of the drive speed, the PowerEdge 12Gbps SAS HBA delivers significant performance improvements in both read and write applications as compared to their 6Gbps predecessors.

### Easy to use

Dell PowerEdge servers with PCIe x8 and x16 connectors support the PowerEdge 12Gbps SAS HBA Adapter cards. These cards communicate with SAS devices using 2x4 mini-SAS HD connectors.

The Dell PowerEdge  
12Gbps SAS HBA helps  
you manage demanding  
workloads with high-  
performance and easy-  
to-manage connectivity.

| Feature   | PowerEdge 12Gbps SAS HBA technical specification   |
|---|--|
| SAS technology                                      | Yes  |
| Support for x4 or x8 PCIe host interface            | Yes  |
| Form factor   | Half-height, half-length PCI adapter   |
| I/O controller (IOC)                                | LSI® SAS 3008  |
| Operating voltage requirements                      | +12V, +3.3V, +3.3Vaux  |
| Communication to the system                         | PCIe lanes   |
| Communication to the end devices                    | SAS links  |
| SAS connectors                                      | 2x4 internal   |
| Lead free   | Yes  |
| Operating systems                                   | Microsoft® Windows Server® 2008 R2 SP2<br>Microsoft Windows Server 2012<br>Microsoft Windows Server 2012 R1 & R2<br>Supported operating systems<br>Red Hat® Enterprise Linux® 5.8<br>Red Hat Enterprise Linux 6.5<br>SUSE® Linux Enterprise Server 10 SP4<br>SUSE Linux Enterprise Server 11 SP3 |
| Dell-compliant SAS compatibility                    | Yes  |
| Dell supported direct-connected end devices         | Dell supported external tape device<br>Dell supported external RBODs and JBODs   |
| SMART error support through management applications | Yes  |
| Backplane-supported systems                         | Yes  |
| Hardware-based RAID support                         | No   |

## End-to-end technology solutions

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