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 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R1 & R2 Supported operating systems Red Hat® Enterprise Linux® 5.8 Red Hat Enterprise Linux 6.5 SUSE® Linux Enterprise Server 10 SP4 SUSE Linux Enterprise Server 11 SP3
Dell-compliant SAS compatibility	Yes
Dell supported direct-connected end devices	Dell supported external tape device 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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