



Dell PowerEdge 6Gbps SAS Controller

The Dell PowerEdge 6Gbps Serial-Attached SCSI (SAS) Controller provides high-performance connectivity plus internal and external tape backup.

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 6Gbps SAS Host Bus Adapter (HBA) and Internal Tape Adapter cards are part of the Dell PowerEdge 6Gbps SAS Controller solution.

Manage data overload

Providing up to 6Gbps throughput and improved hardware performance, the PowerEdge 6Gbps SAS Controller helps you manage demanding workloads with high-performance connectivity and flexibility for tiered storage. The PowerEdge 6Gbps SAS HBA provides support for RBOD connectivity and Dell-supported external SAS tape devices. The PowerEdge Internal Tape Adapter provides support for Dell-supported internal SAS tape devices.

Accelerate the solution

With 6Gbps data transfer rates, you can quickly and safely back up or archive your data with your choice of Dell PowerVault™ tape drives. The PowerEdge 6Gbps SAS Controller supports PowerVault LTO3-060, LTO4 and LTO5 tape drives.

Latest technology enhancements

The PowerEdge 6Gbps SAS HBA and Internal Tape Adapter cards integrate the latest enhancements in PCI Express® (PCIe) and SAS technology. The PowerEdge 6Gbps SAS Controller complies with the T10 SAS 2.0 and the PCIe 2.0 specifications. The PCIe 2.0 host interface drives superior system performance.

Performance advantage

The PowerEdge 6Gbps SAS Controller is backward compatible with 3Gbps SAS devices. Regardless of the drive speed, the PowerEdge 6Gbps SAS Controller delivers significant performance improvements in both read and write applications as compared to their 3Gbps predecessors.

Easy to use

Dell PowerEdge servers with PCIe x8 and x16 connectors support the PowerEdge 6Gbps SAS HBA and Internal Tape Adapter cards. These cards communicate with SAS devices using 2x4 mini-SAS connectors. In addition, the complete PowerEdge 6Gbps SAS Controller package includes all necessary cables.

The Dell PowerEdge 6Gbps SAS Controller helps you manage demanding workloads with high-performance and easy-to-manage connectivity.

Feature	PowerEdge 6Gbps SAS HBA	Internal Tape Adapter
SAS technology	Yes	Yes
Support for x4 or x8 PCIe host interface	Yes	Yes
Form factor	Half-height, half-length PCI adapter	Half-height, half-length PCI adapter
I/O controller (IOC)	LSISAS2008	LSISAS2008
Operating voltage requirements	+12V, +3.3V, +3.3Vaux	+12V, +3.3V, +3.3Vaux
Communication to the system	PCIe lanes	PCIe lanes
Communication to the end devices	SAS links	SAS links
SAS connectors	2x4 external	2x4 internal
Lead free	Yes	Yes
Operating systems	Microsoft® Windows® Vista Microsoft Windows Server® 2008 Microsoft Windows Server 2003 Microsoft Windows 2000 Server Microsoft Windows XP Linux® Oracle® Solaris® (x86) Netware® Virtualization Options: VMware®	
Dell-compliant SAS compatibility	Yes	Yes
Dell-supported direct-connected end devices	Dell-supported external tape devices Dell-supported external RBODs	Dell-supported internal tape devices
Backplane-supported systems	Yes	Yes
Hardware-based RAID support	No	No

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