Dell PowerEdge RAID Controller H330

Eight-port 12Gbps PCI Express RAID controller supporting 3Gbps, 6Gbps and 12Gbps SAS, and 3Gbps and 6Gb/s SATA hard-disk or solid-state drives.

Small to medium business owners can enjoy the latest RAID technology at affordable prices and low power consumption with the Dell PowerEdge RAID Controller (PERC) H330. Ideal for file, web, database and email servers, the PERC H330 delivers trusted Dell PERC reliability with minimal maintenance effort.

The PERC H330 entry-level controller card offers a straightforward solution that includes essential RAID levels and support for non-RAID (pass-through) configuration options. In addition, the card connects to SATA and SAS hard disk drives, and solid state drives, allowing for tiered storage that optimizes cost and performance. Physical disk power management (Dimmer Switch™) technology provides additional cost savings by managing power consumption for idle, unconfigured and configured drives. Dell's entry-level RAID controllers cover the spectrum of tiered storage requirements for cost-sensitive applications that require robust data protection.

12Gbps SAS performance advantage

12Gbps SAS is designed for backward compatibility with 6Gbps SAS and 6Gbps SATA hard drives. Regardless of drive speed, 12Gbps PowerEdge RAID controllers deliver significant performance improvements in both read and write applications compared to their 6Gbps predecessors.

Intuitive RAID management

Managing the PERC H330 is easy using the integrated Dell Remote Access Controller (iDRAC) with Lifecycle Controller. Without having to deploy an agent, IT admins can configure, deploy, update and monitor the PERC H330 via the GUI or through Dell's CLI (known as RACADM). Additionally, Dell's one-to-many OpenManage™ Essentials console allows a user to perform storage operations across multiple servers, including RAID controllers as well as physical disks in the PowerEdge system and external enclosures.

Benefits include:

- iDRAC automatically creates and executes jobs for each storage configuration operation
- Customer can reboot the host OS automatically or schedule reboot for a later date.
- PERC H330 supports real-time RAID monitoring and hardware inventory.

iDRAC incorporates Dell OpenManage Storage Services to provide the tools to efficiently manage PERC products, including a pre-boot setup utility and a full spectrum of online RAID management utilities. This suite of applications allows administrators to adjust SAS or SATA topology views from the system host down to the logical and physical drive level. Extending to enterprise deployments, these tools can scale to easily configure, monitor and manage RAID and JBOD volumes locally or over the LAN network.

PowerEdge RAID Controller H330

- Eight internal ports
- Ideal for file, web, database and email servers
- Trusted Dell PERC reliability with minimal maintenance effort

Feature	PowerEdge RAID Controller H330 technical specifications	
Solution provided	Low cost, entry RAID and non-RAID (passthrough) solution for high-density servers (1U or 2U) and workstations with the flexibility to use both SATA and SAS HDDs, SSDs, and pass-through drive configurations	
Physical dimensions	167.6 mm (6.6 in) x 64.4 mm (2.5 in) (low profile)	
Connectors	Two x4 internal mini-SAS HD SFF8644	
Maximum number of physical devices	Non-RAID: up to 128 RAID 0: 32 per volume RAID 1: 2 per volume plus hot spare RAID 5: 32 per volume RAID 10: 32 per volume RAID 50: 32 per volume	
Host bus type	8-lane, PCI Express 3.0 compliant	
Data transfer rates	Up to 12Gb/s per port	
SAS controller	LSI SAS3008	
Key RAID and data protection features	RAID levels 0, 1, 5[1] RAID spans 10, 50[1] Selectable logical drive as boot drive Consistency check Support for TRIM/UNMAP commands for SAS/SATA SSDs Native command queuing Staggered spin-up for SATA drives Hot-plug support Global hot-spare support Online Capacity Expansion (OCE) Online RAID Level Migration (RLM) Automatic rebuild of hot-spare drives; Auto resume during array rebuild; Greater than 2TB logical drive support Soft bad block management Error recovery support S.M.A.R.T. support Physical disk power management (Dimmer Switch™) 4K Native Sector Support	
RAID management	CTRL-R Dell OpenManage™ Storage Services PERC CLI **Additional management**: UEFI (HII) CEM	
Environments	**Operating**: 0°C to 65°C 5 to 90% non-condensing **Storage**: −45°C to 105°C 5 to 90% non-condensing	
PCI card type	3.3V add-in card	
PCI voltage	+12V ±10%	
LED indicators	Internal Activity/Fault per x4 port: Heartbeat	
Operating systems	Microsoft® Windows Server® 2008 R2 SP1 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R1 & R2 Red Hat® Enterprise Linux® 5.8 Red Hat Enterprise Linux 6.5 SUSE® Linux Enterprise Server 10 SP4 SUSE Linux Enterprise Server 11 SP3	**Virtualization options:** VMware® ESXi 5.1 VMware 6.0
Brackets	Full-length, low-profile	

End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in Servers, Storage and Networking, Dell Enterprise Solutions and Services deliver innovation at any scale. And if you're looking to preserve cash or increase operational efficiency, Dell Financial Services™ has a wide range of options to make technology acquisition easy and affordable. Contact your Dell Sales Representative for more information.**

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