



PowerVault MD1200

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Versatile, High-Capacity Direct-Attached Storage Array



Dell™ PowerVault MD1200 direct-attached storage array offers versatility and high-capacity storage for mainstream applications, with optimal performance in sequential (streaming) applications.

- Seamless server expansion for 6Gb/s SAS environments
- Supports mainstream and capacity-intensive applications such as e-mail, backup to disk and video streaming
- Deployment and drive versatility good for investment protection and data tiering

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Gallery



360°



Features



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At a Glance

Dell PowerVault MD1200 [direct-attached storage](#) array offers versatility and high-capacity storage for mainstream applications, with optimal performance in sequential (streaming) applications.



Expansion for Mainstream and Capacity-Intensive Single Server Applications

Dell PowerVault MD1200 direct-attached storage array is the second generation of Dell's low-cost, high-capacity expansion enclosure that improves density, versatility and performance over previous generation to

enhance support for mainstream and capacity-intensive applications.

The PowerVault MD1200 offers seamless expansion for Dell PowerEdge servers with the PERC H800 Host-RAID adapter and provides you with the most drive flexibility of any Dell direct-attach storage arrays.

Easily Expand Your Server Capacity: The PowerVault MD1200 is engineered to seamlessly expand the capacity of Dell PowerEdge servers. This expansion array can support twelve, 3.5" (9 cm)- or 2.5" (6 cm) [SAS hard-disk drives \(HDDs\)](#) or [solid-state drives \(SSDs\)](#)* in a 2U array and expands up to 8 arrays behind a single PERC H800 Host-RAID adapter.

Versatility and Flexibility to Meet Most Business Needs: The PowerVault MD1200 is Dell's most versatile direct-attached storage array. Featuring support for 2.5" (6 cm) drives, as well as the ability to mix 2.5" (6 cm)* and 3.5" (9 cm) enclosures behind a single PERC H800 Host-RAID adapter, PowerVault MD1200 delivers capacity and performance to support most customer deployments.



Support the Business, no Matter the Need

The PowerVault MD1200 supports most mainstream business requirements with added flexibility and versatility to mix 2.5" (6 cm) drives in a 3.5" (9 cm) enclosure* and mix 2.5" (6 cm)- and 3.5" (9 cm) enclosures behind a single PERC H800 Host-RAID adapter*.



This offers customers the ability to support mainstream, capacity-intensive and performance-intensive applications in a single storage solution. This flexibility makes it easy to tier your data by matching your data requirements and drive characteristics to maximize the efficiency of your storage solution.



Support for 2.5" (6 cm) and 3.5" (9 cm) drives in PowerVault MD1200. Additionally, customers can mix 2.5" (6 cm) and 3.5" (9 cm) enclosures behind a single PERC H800 Host-RAID adapter.



Mix and Match 7.2K (Nearline), 10,000 and 15,000 RPM [SAS Hard Disk Drives \(HDDs\)](#) with [Solid State Drives \(SSD\)](#). This includes SAS HDDs that support [SED \(Self-Encrypting Drive\)](#) technology.

Keeping Your Data Safe

Access and accuracy of your data are key to the success of any business. The PowerVault MD1200 has been engineered to help maximize your uptime and security of your data.



Redundant Path with I/O Load

Balancing: You can rest assured that your data will be available when you need it. Even if a single cable path fails from one port of the PERC H800, you will continue to have access to your data through the second port.



Self-Encrypting Drives (SED): [Self-encrypting drives](#) help to ensure that your data is secure with drive-level encryption, so, even if a drive is removed from its storage system or the server it is housed, the data on the drive is encrypted and rendered useless to anyone who attempts to access it without the appropriate security authorization. Additionally, SED supports Instant Secure Erase of drives, is



designed to permanently remove data when repurposing or decommissioning drives.



Hot-Swappable Drives: With hot-swappable drives, you can remove and replace drives even when your system is operating. No need to shut down, and no need to reboot: New drives are available right away.

Leveraging the PERC H800 RAID Controller

The PowerVault MD1220 leverages the PERC H800 Host-RAID adapter with the latest PCI Express 2.0 interface, offering excellent performance for enterprise.

- The configuration of the PERC H800 Host-RAID adapter helps to increase reliability and fault tolerance by enabling the software to recognize the entire array as a single unit, regardless of how many disks are activated for storage in the array. With the PERC H800, customers can choose the RAID option that supports their application. The PERC H800 supports RAID levels 0, 1, 5, 6, 10, 50 and 60.
- Dell PowerVault MD1200 storage array is engineered to work optimally with Dell PowerEdge servers. Dell OpenManage™ Storage Manager Software can manage both the external array and internal storage within the server itself.
- Streamlining storage management through a single, common interface helps reduce resource load on the system, and is easier to navigate for the user as well. The PowerVault MD1200 utilizes the same 2.5" (6 cm) and 3.5" (9 cm) drives as 11th Generation PowerEdge servers, and the same power supplies and fans as the PowerVault MD1220, helping to reduce the number of spares required.

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