



Versatile, modular, Intelligent Data Management

The Dell™ PowerVault™
MD3200/3600/1200 Series
of storage arrays



Simplifying IT

Dell PowerVault MD 3200/3600/1200 Series of storage arrays simplify IT by optimizing your data storage architecture and insuring the availability of your data. This frees up valuable resources to help reduce costs and make innovation a daily practice. To help suit your particular business needs, MD 3200/3600/1200 Series storage arrays support iSCSI, Fibre Channel, or SAS technologies.

The Dell Difference:

Simplification is in our DNA

We are dedicated to helping you reclaim time and resources through IT simplification.

A commitment to standards

We don't rely on proprietary technologies but instead build systems that are standards-based.

Intelligent automation

Our systems are designed for ease-of-use, freeing up your IT team to focus on bigger initiatives.

Scale-as-you-grow modularity

Our storage solutions are completely modular. Buy only what you need, then add capacity as your data storage needs grow.

The perfect balance

Managing the relentless growth of application data can strain IT organizations, whose strategic roles have expanded even in the face of contracting budgets. The Dell PowerVault MD 3200/3600/1200 Series of storage arrays address these challenges with versatile solutions that are optimized for smaller-scale storage consolidation, flexible virtualization projects and high business continuity. The PowerVault MD 3200/3600/1200 Series includes high-performance SAN and direct-attached storage arrays, high-capacity expansion enclosures and robust management software that together deliver exceptional flexibility, scalability and value. To help suit your particular business requirements, MD 3200/3600 Series arrays offer iSCSI, Fibre Channel or SAS technology.

Continued flexibility, scalability and value to the proven MD Series of arrays

PowerVault MD3600f and MD3620f arrays introduce Fibre Channel to the MD Series. Enhance throughput with four 8Gb/s ports per controller for your data-intensive applications, while extending business continuity through remote replication features. The MD3600f and MD3620f continue the tradition of backwards compatibility to the proven MD Series of arrays. MD3600 Series arrays scale to support up to 64 hosts and up to 96 drives using MD1200 or MD1220 expansion enclosures. In addition, the multi-protocol, multi-generational MD Storage Manager software provides a simple and intuitive array management interface, making these superlative platforms for disaster recovery and business continuity.

Superb consolidation and virtualization

The iSCSI-based PowerVault MD3200i/MD3220i and MD3600i/MD3620i Series of Storage Area Network (SAN) arrays offer high system functionality, performance and flexibility for storage consolidation and virtualization deployments. The MD3600i Series supports high-bandwidth, 10GbE direct connect or SAN connectivity and up to 64 hosts in a compact, 2U form factor; the MD3200i Series supports 1GbE direct connect or SAN connectivity and up to 32 physical servers.

High-availability storage

The PowerVault MD3200 Series of storage arrays incorporates 6 Gb/s SAS technology to offer exceptional flexibility, scalability and performance on Dell PowerEdge servers. Dual-controller models can connect up to four high-availability servers or eight non-redundant servers, for balanced performance in mixed virtualized environments.

Flexible expansion to boost performance or capacity

Expand your MD3200/3600 Series of arrays or Dell™ PowerEdge™ servers easily and flexibly by connecting PowerVault MD1200 and MD1220 direct-attach, 6 Gb/s SAS expansion enclosures.

The PowerVault MD1220 delivers the speed, flexibility and reliability to satisfy performance-intensive applications that work with active or dynamic data stores. This high-performance, 2U array can accommodate up to twenty-four 2.5" SAS HDDs or SAS SSDs to provide up to 12 TB of storage.

The PowerVault MD1200 expansion enclosure is ideal for applications that move large amounts of data and require extended storage capacity. Up to twelve 3.5" SAS HDDs or SSDs can be housed in this 2U array to provide up to 24 TB of storage. Both drive sizes can be combined behind a single PowerEdge RAID Controller.

The modularity of the PowerVault MD Series of storage arrays enables you to easily upgrade an existing system and evolve current storage infrastructures to meet changing business needs. For example, migrating from a standard, single-controller to a highly available, dual-controller PowerVault MD 3200/3600 Series array simply requires you to slide in a second controller module—no data migration or extended downtime required. Plus, this modularity offers easy and economical expansion for Dell PowerEdge servers and PowerVault MD storage arrays.

Dell PowerVault MD Storage Arrays



Versatile storage with powerful management

The PowerVault MD 3200/3600/1200 Series of arrays is supported by a robust suite of easy-to-use, intelligent storage management software. For the MD3200 and MD3600 Series arrays, the multi-protocol, multi-generational Modular Disk Storage Manager combines an intuitive interface, wizard-guided tools, and a task-based management structure to significantly reduce the complexity of installation, configuration, management, and diagnostic tasks.

In addition, Dell OpenManage™ Storage Management provides a comprehensive set of standards-based tools for the proactive management of information and control functions needed to optimize deployment, health status monitoring, fault recovery and change management for all PowerVault MD 3200/3600/1200 Series arrays.

The PowerVault MD3200/3600/1200 Series of arrays is designed to provide the versatility to match storage drives to different tiers of application data performance and space requirements, in order to maximize capacity at the lowest cost per gigabyte. To satisfy the near-line speed, performance and reliability requirements of mainstream and server applications, SSD, 10K and 15K RPM SAS, and nearline SAS drives can be used in all MD Series arrays. Where security is a priority, PowerVault MD3200 and MD3600 Series arrays can be equipped with Self-Encrypting Drives (SED).

The PowerVault MD3200/3600/1200 Series of arrays uses the same disk drives as PowerEdge servers, so you only need to stock a single type of spare drive, fan or power supply. PowerVault storage arrays are designed and engineered to pair perfectly with PowerEdge servers, offering a complete solution that enhances usability and can make support and service easier.

Support for your unique environment

Dell ProSupport* for IT provides tech-to-tech support for IT Professionals, database administrators, and internal service desks or help desks. Features such as Fast-Track Dispatch, direct access to Dell Expert Centers, and customer-controlled severity levels were designed with your specific challenges in mind. Dell Infrastructure Consulting helps organizations—from small and medium-sized companies to large corporations—select the right storage infrastructure to ensure data availability and optimize it with a variety of service options to meet your requirements for backup, recovery, and archiving. Dell Global Services incorporates operational excellence, accountability, and value to deliver end-to-end service and support solutions designed to maximize your IT investment by simplifying your IT environment.



Optimized for smaller-scale storage consolidation, virtualization and business continuity across a range of business needs.

	Drives	Max. Drives	Drive Type	Max. Cache	Host Interface	Max. Hosts	Max. HA Hosts	Form Factor	Management Software	Optional Features	Server Support	OS Support
PowerVault MD3620f	24	96	2.5-inch 6 Gbps SAS and NL SAS HDDs; 2.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 8Gb/s Fibre Channel (4 ports per controller)	64	64	2U	MD Storage Manager	Remote Replication, Snapshot, Virtual Disk Copy, Self-Encrypting Drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3600f	12	96	3.5-inch 6 Gbps SAS and NL SAS HDDs; 3.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 8Gb/s Fibre Channel (4 ports per controller)	64	64	2U	MD Storage Manager	Remote Replication, Snapshot, Virtual Disk Copy, Self-Encrypting Drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3620i	24	96	2.5-inch 6 Gbps SAS and NL SAS HDDs; 2.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Four x 10Gbps Ethernet (2 per controller)	64	64	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-Encrypting Drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3600i	12	96	3.5-inch 6 Gbps SAS and NL SAS HDDs; 3.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Four x 10Gbps Ethernet (2 per controller)	64	64	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-Encrypting Drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3220i	24	96	2.5-inch 6 Gbps SAS and NL SAS HDDs; 2.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 1Gbps Ethernet (4 per controller)	32	32	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-Encrypting Drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3200i	12	96	3.5-inch 6 Gbps SAS and NL SAS HDDs; 3.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 1Gbps Ethernet (4 per controller)	32	32	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-encrypting drives, High Performance Tier	Industry-standard servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3220	24	96	2.5-inch 6 Gbps SAS and NL SAS HDDs; 2.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 6Gbps SAS (4 per controller)	8	4	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-encrypting drives, High Performance Tier	Dell servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD3200	12	96	3.5-inch 6 Gbps SAS and NL SAS HDDs; 3.5-inch 3 Gbps SSDs	4GB (2GB per controller)	Eight x 6Gbps SAS (4 per controller)	8	4	2U	MD Storage Manager	Snapshot, Virtual Disk Copy, Self-encrypting drives, High Performance Tier	Dell servers	Microsoft® Windows®, Linux, VMware®, Microsoft Hyper-V™, Citrix XenServer®
PowerVault MD1220	24	192	2.5-inch 6 Gbps SAS and NL SAS HDDs; 2.5-inch 3 Gbps SSDs	Controller Dependent	Two 6Gbps SAS	Controller Dependent	Controller Dependent	2U	OpenManage™ Storage Management	N/A	Dell™ PowerEdge™ only	Controller Dependent
PowerVault MD1200	12	96	3.5-inch 6 Gbps SAS and NL SAS HDDs; 3.5-inch 3 Gbps SSDs	Controller Dependent	Two 6Gbps SAS	Controller Dependent	Controller Dependent	2U	OpenManage™ Storage Management	N/A	Dell™ PowerEdge™ only	Controller Dependent

*Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicesdescriptions

Exceptional flexibility, scalability and balanced performance for mixed virtualized and data-intensive workloads.

Simplify your storage at Dell.com/Storage

