



## Dell PowerVault RD1000

Removable disk drive combines the speed of a hard disk with the portability of optical media for quick, easy, affordable backups with continuous data protection.

### Removable disk drive for backup

Dell™ PowerVault™ RD1000 removable disk drive lets you quickly protect all your important information and take it with you. Designed as a sensible, affordable alternative to tape and CD/ DVD backup, the PowerVault RD1000 is fast, user-friendly, and reliable. Backup software is included with every PowerVault RD1000 for Backup and Recovery protection. The PowerVault RD1000 is available in capacities up to 2TB, and the media cartridge weighs about as much as a cell phone.

### Rugged. Removable. Ready

At the heart of the PowerVault RD1000 is the removable disk media that combines a tough exterior design and an internal shock absorber — all rigorously tested to the highest standards. It's faster and easier than tape or CD/DVD to back up large amounts of information. Simply pop in the removable disk media, select the files or folders you want to protect, then drag-and-drop them into the directory folder. To restore files, just reverse the process. Drag-and-drop capability gives you random access for much quicker restoration of the files you need most. The PowerVault RD1000 comes with everything you need to protect data quickly and easily: dock unit, removable disk cartridge, and backup software.

### Sensible and affordable alternative

When comparing the PowerVault RD1000 to other backup methods, it's easy to see why a removable disk drive offers an affordable alternative to tape-based systems, a sensible substitute for CD or DVD optical media, and a better alternative than USB based hard drives.

Entry-level tape-based systems have lower storage capacities than a removable disk drive, and can be significantly more expensive per gigabyte stored. CD and DVD optical media — while very inexpensive — are slower and less durable when compared to removable disk media. Plus it can be difficult to manage and find data later on CD and DVD media. USB-based hard drive storage systems offer larger storage capacities than tape or CD/DVD, but don't offer the portability, durability, continuous data protection or easy expendability of the PowerVault RD1000 with removable disk cartridges in capacities up to 2TB.

### Flexible capacity and configuration

Select an external USB-connected RD drive dock or an internal SATA-connected RD drive dock that fits into a standard

workstation or server bay. The PowerVault RD1000 is available in 320GB, 500GB, 1TB and 2TB disk cartridge capacities. Removable disk media of all capacities are interchangeable, designed for transportability, and fit in both internal and external configurations so you can easily share information between systems. Designed to be forward-compatible with future planned expanded-capacity removable disk media, the PowerVault RD1000 removable disk drive lets you protect your investment as your storage needs grow.

Designed to address the technology challenges you face today. Designed for IT professionals like you, Dell ProSupport<sup>1</sup> for IT provides 7x24 direct access to Dell Expert Centers, fast-track dispatch of parts and labor without phone troubleshooting when desired for Dell-certified technicians, and escalation management through Dell's Global Command Centers. In addition, Dell ProSupport Options align with the way you use technology by providing rapid response to your needs, protecting your investment, productivity, and sensitive data, and enhancing proactive support services to reduce the risk and complexity of managing your infrastructure.

### Speed of Response

With the Mission Critical<sup>2</sup> option, you get priority response for server and storage environments where avoiding unplanned downtime and reducing recovery time are critical. Includes priority 4-hour On-Site service or optional 2-hour response with 6-hour hardware repair, Dell's proven Critical Situation process, and emergency dispatch.

### Protection

With Keep your Hard Drive<sup>3</sup> you retain control of your sensitive data and comply with data privacy regulations (to help mitigate regulatory and civil liability risks) by keeping your hard drive.

### Premium Proactive

With the Enterprise-Wide Contract option, you get enhanced, proactive capabilities via a designated Service Delivery Manager, performance benchmarking and custom reporting, and planning and assessments. Our Proactive Maintenance option proactively maximizes the availability and stability of your infrastructure. Includes a detailed system assessment and implementation of driver or firmware updates and upgrades for your server or storage systems. Remote Advisory Options provides telephone and Internet access to technical expertise for specialized applications and solutions such as Microsoft® Exchange, Virtualization, and more.

## Comprehensive Storage Training and Certification

Provides expertise for integrating Dell storage into an existing IT infrastructure. For company compliance, an advanced Certification path is available for validating or maintaining skill sets.

## Backup and Recovery

Solutions that help ensure adequate procedures are in place to minimize or avoid data loss.

## Storage Consolidation

Our storage experts can analyze your existing infrastructure, operational practices, and technical readiness and develop a detailed consolidation deployment plan that includes a validated and refined solution design.

## Supported Operating Systems

Windows®, Red Hat®, SUSE™ Refer to the Dell PowerVault compatibility matrix for complete list.

[http://downloads.dell.com/Manuals/Common/Pvmatrix\\_A37\\_reference\\_guide\\_9\\_en-us.pdf](http://downloads.dell.com/Manuals/Common/Pvmatrix_A37_reference_guide_9_en-us.pdf)

## Hardware Platforms<sup>4</sup>

Refer to the Dell PowerVault compatibility matrix for complete list.

[http://downloads.dell.com/Manuals/Common/Pvmatrix\\_A37\\_reference\\_guide\\_9\\_en-us.pdf](http://downloads.dell.com/Manuals/Common/Pvmatrix_A37_reference_guide_9_en-us.pdf)

Ext models:

PowerEdge Server products with USB 3.0<sup>6</sup> connections. Refer to the Dell PowerVault compatibility matrix for complete list.

[http://downloads.dell.com/Manuals/Common/Pvmatrix\\_A37\\_reference\\_guide\\_9\\_en-us.pdf](http://downloads.dell.com/Manuals/Common/Pvmatrix_A37_reference_guide_9_en-us.pdf)

## Backup Software

Supported by Retrospect

| Features                       | Technical Specification                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                         | Internal Dock: 41.4 mm (1.63");<br>External Dock: 51.8 mm (2.04");<br>RD Cartridge: 23.68 mm (0.93")                                                                                                                       |
| Width                          | Internal Dock (3.5"): 101.6 mm (4.00");<br>Internal Dock (5.25"): 146 mm (5.75");<br>External Dock: 109.8 mm (4.32");<br>RD Cartridge: 86.6 mm (3.4")                                                                      |
| Length (Depth)                 | Internal Dock (3.5"): 159.4 mm (6.28");<br>Internal Dock (5.25"): 171.9 mm (6.77");<br>External Dock: 177.5 mm (7.00");<br>RD Cartridge: 119.18 mm (4.69");                                                                |
| Weight                         | Internal Dock (3.5"): 408 g (0.90 lbs.);<br>Internal Dock (5.25"): 635 g (1.40 lbs.)<br>External Dock: 540 g (1.19 lbs.);<br>RD Cartridge: 173 g (0.38 lbs.);                                                              |
| Orientation                    | Dock can be oriented either horizontally or vertically;                                                                                                                                                                    |
| Configurations                 | Internal SATA connect in 3.5" or 5.25" bay;<br>External USB 3.0 connect                                                                                                                                                    |
| Supported Cartridge Capacities | 320GB native, compressed capacity <sup>5</sup> (640GB)<br>500GB native, compressed capacity <sup>5</sup> (1TB)<br>1TB native, compressed capacity <sup>5</sup> (2TB)<br>2TB native, compressed capacity <sup>5</sup> (4TB) |
| Code Updates                   | Supported through SATA and USB                                                                                                                                                                                             |
| Interface                      | SATA (internal dock) 35MB/s;<br>USB 3.0 (external dock) up to 80MB/s <sup>6</sup>                                                                                                                                          |
| Temperature                    | OPERATING: 10°C to 40°C<br>NON-OPERATING: (-40°C to 65°C)                                                                                                                                                                  |
| Thermal Gradient               | OPERATING: 10°C / hour<br>NON-OPERATING: (20°C /hour)                                                                                                                                                                      |
| Relative Humidity              | OPERATING: 20% to 80%<br>NON-OPERATING: (10% to 90%), non-condensing                                                                                                                                                       |
| Max Wet Bulb Temperature       | OPERATING: 29°C<br>NON-OPERATING: (38°C), non-condensing                                                                                                                                                                   |
| Altitude                       | OPERATING: -50 ft to 10,000 ft.<br>NON-OPERATING: (-50 ft to 35,000 ft.)                                                                                                                                                   |
| Vibration                      | OPERATING: sine vib 0.25 G peak, 3-200 Hz<br>NON-OPERATING: (random vib 1.54 G RMS)                                                                                                                                        |

| Power Ratings                         | Internal RD1000 | External                                          |
|---------------------------------------|-----------------|---------------------------------------------------|
| Voltage Tolerance                     | + 5VDC $\pm$ 5% | + 12VDC $\pm$ 10%                                 |
| Power Consumption<br>(Typical / Peak) | 7.5 W / 13 W    | 6.6 W / 13 W                                      |
| AC Adapter                            | N/A             | Universal Adapter<br>100-240 VAC<br>50-60Hz Input |

<sup>1</sup> ProSupport Technical Support: Must be purchased in conjunction with Limited Warranty. The ProSupport Queue is designed to provide 2 minutes or less average speed of answer, provided the correct, toll-free ProSupport number is called by the customer. Hold times in the ProSupport Queue may be affected by multiple variables including, but not limited to: time of day, product release cycle, product recall occurrences and total number of ProSupport customers.

<sup>2</sup> ProSupport Service Plans: Service may be provided by a third party. Technician will be dispatched if necessary in parallel with phone-based troubleshooting for severity level 1 issues on systems with ProSupport Mission Critical or Same Day Response service. Technician will be dispatched if necessary following phone-based troubleshooting for all other severity levels and on-site response service levels. Repair time is measured from dispatch time of the on-site response service. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.

<sup>3</sup> The defective hard drive must still be covered by the hardware limited warranty.

<sup>4</sup> Some models support external RD1000 drive only. Please check the Dell website for up-to-date support information at <http://support.dell.com/support/edocs/stor-sys/matrix/> For ordering additional media, go to [www.dell.com/RDmedia](http://www.dell.com/RDmedia).

<sup>5</sup> Using the software compression feature built into standard backup applications.

<sup>6</sup> RD1000 USB 3.0 typical transfer rate of 80MB/s requires a USB 3.0 Host, and USB 3.0 cable. If a USB 2.0 Host is used, performance may be limited to up to 30MB/s

## Simplify data backup at [Dell.com/RD1000](http://Dell.com/RD1000)

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