

The RDX[®] Technology Advantage



The RDX removable disk system is designed to protect your business's valuable information. An RDX system consists of a rugged, removable disk cartridge and an RDX dock. When the RDX cartridge is inserted into the dock, the system backs up data just like a tape drive. The media, which includes a 2.5-inch mobile disk drive housed in a shock-proof casing, can be safely archived for 30 years, backs up over 100 GB in an hour and retrieves files in milliseconds.

The RDX system's high-performance, enterprise-class data protection and low cost meet the reliability and business requirements for all backup and data archive applications—from the desktop up through enterprise class servers.

RDX technology capitalizes on the best characteristics of both tape and disk:

- Tape—removability, portability and low cost
- Disk—fast data transfer rates and random access file retrieval



A Rugged, Reliable Hard Disk Cartridge that Backs Up Data Just Like Tape

The RDX media is a disk drive that operates just like a tape drive but sustains up to 45 MB-per-second data transfer rate and backs up over 100 GB in just one hour. Unlike tape, the RDX media is randomly accessed so stored files can be immediately retrieved without tape's time-consuming sequential seeks. Single files and selected volumes can be restored in seconds instead of hours.

Simple and Compatible

RDX systems, both internal (mounted in a server bay) and external (tabletop), are plug-n-play interoperable and can seamlessly integrate with most common backup applications. Set up is as simple as plugging in the data cable, power cord and inserting an RDX cartridge.

Backward and Forward Scalability

Highly complex tape mechanisms have short life expectancies. Upgrading to the next generation requires the complete purchase of new drives and media. The mechanical simplicity of a multi-generational RDX system results in a productive life span that is 10 times longer than the most reliable tape drives. And because the RDX cartridge houses a completely self-contained disk drive, any advancement in disk capacity technology will be immediately usable by the system. This means that tomorrow's higher capacity RDX cartridges will operate in today's RDX systems.

Disk-to-Removable Disk Backup

The removable RDX media is uniquely designed for portability with its mobile 2.5-inch hard disk drive suspended in a highly ruggedized cartridge. The disk drive is typical of those used in laptop computers where size and locking heads are extremely important. The ruggedized, protective and shock-proof RDX cartridge meets industry-standard drop test requirements of 1m (39 inches) onto a tiled or concrete floor without damage.





RDX Technical Specifications

Description	Media Type	Ruggedized, 2.5-inch mobile SATA HDD
Capacity	Native Data Compression	40 GB, 80 GB, 120 GB, 160 GB, 300 GB & 500 GB 2:1 Application-based compression supported
Compatibility	Read/Write	Forward and backward compatibility to all RDX systems
Performance	Transfer Rate (Average Sustained) Transfer Rate, Burst Access Time, Average Power Consumption (Typical/Peak)	Up to 45MB/s (25MB/s USB, 45MB/s SATA) 150 MB/sec <100 milliseconds 6.6W / 12W
Reliability and Data Integrity	Unrecoverable Error Rate Cartridge Non-operating Drop Shock Cartridge Usage Dock Usage Dock Service Life MTBF	1 error per 10 ¹⁴ bits read 1 m (39.4 in.) drop to tile over concrete floor 5,000 load/unload cycles (minimum) 10,000 load/unload cycles (minimum) >13 years @ 2 insertion/removals per day 550,000 hours
Physical Dimensions Cartridge	Height Width Length Weight	23.68 mm (0.93 in.) 86.6 mm (3.40 in.) 119.18 mm (4.69 in.) 173g (0.38 lbs.)
Physical Dimensions Tabletop USB Dock	Height Width Length Weight	51.8 mm (2.04 in) 109.8 mm (4.32 in) 177.5 mm (7.00 in) including bezel 540 g (1.19 lbs)
Physical Dimensions Internal 3.5" SATA Dock	Height Width Length Weight	41.4 mm (1.63 in) 101.6 mm (4.00 in) 159.4 mm (6.28 in) including bezel 408 g (0.90 lbs)
Physical Dimensions Internal 5.25" SATA Dock	Height Width Length Weight	41.4 mm (1.63 in) 146.0 mm (5.75 in) 171.9 mm (6.77 in) including bezel 635 g (1.40 lbs)
Environmental	Min/Max Operating Temperature Min/Max Non-Operating Temperature Relative Operating Humidity Relative Non-Operating Humidity Maximum Operating Vibration Maximum Non-Operating Vibration Altitude Operating Altitude Non-Operating Operating Orientation	10° to 40°C -40° to 65°C 20% to 80%, non-condensing 10% to 90%, non-condensing 0.5 G 1.0 G -50 to 10,000 ft -50 to 35,000 ft Horizontal or Vertical
Archival Environmental	Cartridge Archive Storage Life Archival Storage Environment Maximum Wet Bulb	>30 years (offline storage in archival environment.) 5° to 26°C (41° to 78°F), 5% to 95% relative humidity 25°C (77°F), non-condensing
Other Features	Encryption Barcode Automation	Supports application based encryption Supports standard and electronic barcode Soft eject with cartridge designed for robotic handling

* Native cartridge capacities expected to increase at same rapid growth rate as industry-standard mobile hard disk technologies.

Visit www.rdxstorage.com



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