

# Quantum®

## Quantum RDX



### > DATASHEET

## Fast, Simple, Reliable, and Compact Disk-Based Data Protection System

The Quantum RDX® system is a fast, simple, reliable and compact disk-based data protection system that satisfies the backup and archive needs of today's fast-paced business. Combining the removability and high capacity of tape with the random file access and performance of disk, the Quantum RDX provides a compelling answer to the on-site/off-site data protection needs of small businesses and branch offices.

Along with the dock and the removable data cartridge, the Quantum RDX system includes Retrospect® backup software for Windows®. This software incorporates data deduplication technology to provide an extremely cost-effective solution, reducing the number of cartridges required for effective backups by up to 20:1. Each time you run a backup, Retrospect only stores the data that has changed, thus significantly saving disk space. When you restore, the software automatically reassembles the pieces so you get the full file as it existed on the date you are requesting. This process dramatically increases the number of backup data sets that can be stored on a single disk, as well as the number of available recovery points. The result is reduced media handling, simplified management, and faster restores.

Quantum RDX cartridges contain a rugged mobile hard drive in a highly effective shock-resistant mounting. They are available in various capacities, all of which are read and write compatible and interchangeable with any RDX dock. Choose from the easily integrated SATA or USB internal dock, which can be quickly installed into a server or desktop 5.25-inch bay, or the convenient tabletop USB dock that can be connected in seconds.

## FEATURES & BENEFITS

### Fast

Backups complete in minutes.  
Quick access to data for fast restores.

### Simple

Every backup appears as a full backup; no hunting through incrementals like tape. To restore, simply pick a recovery date, then drag and drop files from Windows Explorer.

### Reliable

Ruggedized cartridges can withstand a one-meter drop to a hard surface without damage, and they have a 30-year archive shelf life in a normal office environment.

### Flexible

On-site/Off-site data backup.

### Affordable

Cartridges can be used for months without filling up, thanks to data deduplication technology.

### Powerful

The Retrospect software includes integrated protection for your Microsoft Exchange email system and SQL Server databases.

### Secure

Supports government-level security with the highest level AES 256-bit Encryption Standard.

Multiple, interchangeable cartridge capacities



> **LEARN MORE:**  
[www.quantum.com/rdx](http://www.quantum.com/rdx)

# TECHNICAL SPECIFICATIONS

## DRIVE CAPACITY AND PERFORMANCE

<b>Drive Type:</b>	Quantum RDX
<b>Cartridge Capacity*:</b>	3TB, 2TB, 1TB, and 500GB
<b>Average Sustained (cartridge dependent):</b>	Up to 260MB/sec USB 3.0 and 330MB/sec SATA III
<b>Drive Access Time, Average:</b>	<15 msec
<b>Interface:</b>	Internal 5.25" SATA III: SATA, USB3.0: Type-B and Tabletop dock: USB3.0

## COMPATIBILITY

<b>Dock:</b>	RDX can be used as an external hard drive. See <a href="http://www.quantum.com">www.quantum.com</a> for operating system compatibility.
<b>Retrospect Backup Software:</b>	Windows XP, Windows Vista SP1, Windows 7, Windows 8, Windows Server 2003, Windows Server 2003 R2, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Small Business Server 2008, Small Business Server 2011, CentOS Linux, Fedora Core 5, RHEL, SLES

## RELIABILITY

<b>Cartridge:</b>	5,000 load/unload cycles
<b>Dock:</b>	10,000 load/unload cycles
<b>MTBF:</b>	550,000 hours MTBF
<b>Unrecoverable Error Rate:</b>	1 error in 10 <sup>14</sup> bits read

## MECHANICAL SHOCK / VIBRATION

<b>Media Drop Shock (non-operating):</b>	1m [39.4in] drop to tile over concrete floor
<b>Cartridge Vibration (maximum):</b>	0.5G operating, 1.0G non-operating

## PHYSICAL SPECIFICATIONS

Form Factor	Internal Dock	Tabletop Dock	Cartridge
Width (in/mm)	5.75 / 146.0	4.32 / 109.8	3.40 / 86.6
Height (in/mm)	1.63 / 41.4	2.04 / 51.8	0.93 / 23.68
Length (in/mm)	6.77 / 171.9	7.00 / 177.5	4.69 / 119.18
Weight (lbs/g)	1.40 / 635	1.19 / 540	0.38 / 173

## ENVIRONMENTAL

<b>SYSTEM, OPERATING</b>	
<b>Temperature °F (°C):</b>	50° to 104° [10° to 40°]
<b>Humidity:</b>	20% to 80% RH Non-condensing
<b>Altitude (maximum):</b>	10,000 ft MSL

<b>SYSTEM, NON-OPERATING</b>	
<b>Temperature °F (°C):</b>	-40° to 149° [-40° to 65°]
<b>Humidity:</b>	10% to 90% RH Non-condensing

<b>CARTRIDGE, OPERATING</b>	
<b>Temperature °F (°C):</b>	50° to 104° [10° to 40°]
<b>Humidity:</b>	20 to 80% RH Non-condensing

<b>CARTRIDGE, NON-OPERATING</b>	
<b>Temperature °F (°C):</b>	-40° to 149° [-40° to 65°]
<b>Humidity:</b>	10 to 90% RH Non-condensing
<b>Altitude (maximum):</b>	35,000 ft MSL

<b>CARTRIDGE, LONG-TERM STORAGE</b>	
<b>Temperature °F (°C):</b>	50° to 86° [10° to 30°]
<b>Humidity:</b>	20 to 60% RH Non-condensing

<b>POWER SPECIFICATIONS</b>	
<b>Voltage (V):</b>	Internal dock: +5 [SATA III] or +12 [USB3.0] VDC, external dock: +5 VDC USB3.0

**Current at Read/Write (Typical/Peak):** Internal dock: +5V: 0.9A / 1.6A [SATA III] & +12V: 0.005mA / 1.4A USB3.0, external dock: +5V: 0.9A / 1.6A [USB3.0]

**Power Connector Internal Docks:** SATA III: SATA Power, USB: 4-Pin Molex

**Power Connector External Dock:** Uses USB3.0 connection or optional wall adapter: +5 V (+/-10%) 2.4A to +12 V (+/-10%) 1.0A, 5.5mm

## WARRANTY

<b>Dock:</b>	3 years limited with Rapid Exchange
<b>Cartridge:</b>	3 years limited with Rapid Exchange

## Model Numbers and Descriptions

### RDX Dock Only (no cartridges)

*Includes Retrospect backup software and cables.*

<b>TR000-CTDB-S0BB</b>	Quantum RDX Tabletop Dock, USB 3.0
<b>TR000-CNDA-S0BB</b>	Quantum RDX Internal Dock, SATA III
<b>TR000-CNDB-S0BB</b>	Quantum RDX Internal Dock, USB 3.0

### Quantum RDX Cartridges\*

*All RDX docks are compatible with the cartridges below.*

<b>MR300-A01A</b>	3TB uncompressed
<b>MR200-A01A</b>	2TB uncompressed
<b>MR100-A01A</b>	1.0TB uncompressed
<b>MR050-A01A</b>	500GB uncompressed

\* Cartridges may be added or deleted as hard drive capacities evolve.

## ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at [www.quantum.com/customerstories](http://www.quantum.com/customerstories).