



# Quantum RDX

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 onsite/offsite data protection needs of small businesses and branch offices.

Along with the dock and the removable data cartridge, the Quantum RDX system includes GoProtect® 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, GoProtect 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 2.5-inch 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 AND 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** – Onsite/Offsite data backup.
- **Affordable** – Cartridges can be used for months without filling up, thanks to data deduplication technology.
- **Powerful** – The GoProtect 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.

## TECHNICAL SPECIFICATIONS

### DRIVE CAPACITY AND PERFORMANCE

<b>Drive Type:</b>	Quantum RDX
<b>Cartridge Capacity*:</b>	320GB, 500GB, 1TB, 1.5TB
<b>Average Sustained (cartridge dependent):</b>	Up to 230MB/sec USB 3.0 and 45MB/sec SATA
<b>Drive Access Time, Average:</b>	15 msec
<b>Interface:</b>	Internal 5.25" SATA or USB 3.0 dock, 4-pin disk drive style power connector; Tabletop USB 3.0 dock

### 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>GoProtect Backup Software:</b>	Windows 2003 and 2008 Server (32 and 64 bit), Windows XP SP2, Vista, Windows 7, Windows 8 and 2012 Server, all versions of LINUX and IBM AIX

### 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>Cartridge Archive Life:</b>	30 years
<b>Unrecoverable Error Rate:</b>	1 error in 10 <sup>4</sup> bits read

### MECHANICAL SHOCK

<b>SYSTEM, OPERATING (half-sine pulse)</b>	
<b>Internal:</b>	10Gs @ 11 msec, 65Gs @ 2 msec
<b>Tabletop:</b>	31Gs @ 2.6 msec
<b>SYSTEM, NON-OPERATING (half-sine pulse)</b>	
<b>Internal:</b>	40Gs @ 11 msec, 145Gs @ 2 msec
<b>Tabletop:</b>	71Gs @ 2 msec
<b>CARTRIDGE, NON-OPERATING:</b> 1 m (39.4 in) drop to tile over concrete floor	

### 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

### MECHANICAL VIBRATION

<b>SYSTEM, OPERATING</b>	
<b>Magnitude:</b>	0.5G
<b>Range:</b>	5 to 500 to 5 Hz @ 1 Hz/sec (swept sine)
<b>DOCK, NON-OPERATING (swept sine)</b>	
<b>Magnitude:</b>	1G
<b>Range:</b>	5 to 500Hz @ 0.5 Oct/min
<b>DOCK, NON-OPERATING (random)</b>	
<b>Magnitude:</b>	2G RMS
<b>Range:</b>	1 to 200Hz @ 15 min/axis
<b>CARTRIDGE (max):</b>	0.5G operating, 1.0G non-operating

### 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>VOLTAGE (V):</b>	+5, +12 VDC internal, 100-240 VAC tabletop
<b>POWER CONSUMPTION (W)</b>	
<b>Internal SATA:</b>	7.5 typical, 13 peak
<b>Internal USB:</b>	6.6 typical, 20 peak
<b>Tabletop USB:</b>	6.6 typical, 12 peak

### 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 GoProtect backup software and cables.

<b>TR000-CTDB-S0BB</b>	Quantum RDX Tabletop Dock, USB 3.0
<b>TR000-CNDA-S0BA</b>	Quantum RDX Internal Dock, SATA
<b>TR000-CNDB-S0BB</b>	Quantum RDX Internal Dock, USB 3.0

#### RDX Tabletop Kits

Includes USB Tabletop dock and cables, GoProtect backup software, one RDX cartridge. Model numbers may be added or deleted as hard drive capacities evolve.

<b>TR150-CTDB-S1BA</b>	Quantum RDX Tabletop Dock, USB 3.0, one 1.5TB cartridge
<b>TR100-CTDB-S1BA</b>	Quantum RDX Tabletop Dock, USB 3.0, one 1.0TB cartridge
<b>TR050-CTDB-S1BA</b>	Quantum RDX Tabletop Dock, USB 3.0, one 500GB cartridge
<b>TR032-CTDB-S1BA</b>	Quantum RDX Tabletop Dock, USB 3.0, one 320GB cartridge

#### Quantum RDX Cartridges\*

All RDX docks are compatible with the cartridges below.

<b>MR150-A01A</b>	1.5TB uncompressed
<b>MR100-A01A</b>	1.0TB uncompressed
<b>MR050-A01A</b>	500GB uncompressed
<b>MR032-A01A</b>	320GB uncompressed

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

### ABOUT QUANTUM

Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum, customers can Be Certain they're able to adapt in a changing world – keeping more data longer, bridging from today to tomorrow, and reducing costs. See how at [www.quantum.com/BeCertain](http://www.quantum.com/BeCertain).

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