HPE RDX Removable Disk Cartridge

The HPE RDX Removable Disk Cartridge is a rugged and removable hard disk drive cartridge that provides easy offsite data protection and quick access to your most critical data. When used with an HPE RDX internal or external dock, the HPE RDX backup system becomes an ideal entry level backup solution for small businesses with a single server or branch offices with little or no IT resources

HPE RDX Removable Disk Cartridge

• Easy scalability with a choice of 1 TB and 2 TB cartridge capacities.
• Portability with a shock proof cartridge style hard drive
• Dramatically increase your data capacity by spanning data across multiple cartridges
• Designed for durability with over 5,000 load/unload insertions over the lifetime of the disk.
• Cartridges are interchangeable in any HPE RDX Removable Disk Backup System

Models SKU

HPE RDX 1TB Removable Disk Cartridge Q2044A
HPE RDX 2TB Removable Disk Cartridge Q2046A

The Flexible Way to Protect Your Business Data Faster and More Securely
• The HP RDX Removable Disk Cartridge delivers flexibly meeting both budget and capacity requirements with a choice of 1 TB and 2 TB removable disk cartridges. The HP RDX Removable Disk Backup System works with current and future higher capacity cartridges for backward compatibility.
• Backs up data at fast hard drive speeds (up to 360 GB/hr) and restores critical files in seconds instead of hours with the benefit of random disk access versus a tape drive solution.
• Backup using drag and drop file access which makes backup simple and convenient. Schedule automated backups using Windows Backup, native to the Windows operating system.

Protects Your Business Data While Respecting Your Business Costs
• The HP RDX Removable Disk Cartridge reduces on-going media and upgrade costs with disk cartridges designed with a long usage life.
• Rugged, portable and durable removable disk cartridges enable business critical backup data to be simply and securely taken off-site for disaster recovery, archive or data transfer.
• Cartridges are specified for over 5,000 load and unload cycles and designed for long life expectancy.
• RDX 1 TB and RDX 2 TB cartridges are tested to withstand a drop of 1 meter (3 ft).

Works in a Broad Set of Small Business Operating Environments
• The HP RDX Removable Disk Cartridge suits almost every small business operating environment.
• The RDX Removable Disk Backup System is compatible with all current and future higher capacity RDX Removable Disk Cartridges making the system fully multi-generational

Compatibility

Hewlett Packard Enterprise has an extensive compatibility testing program that verifies the HPE RDX Removable Disk Cartridge and
HPE RDX Removable Disk Backup Systems work with other competitor's branded RDX backup systems.
HPE RDX Removable Disk Cartridge and HPE RDX Removable Disk Backup Systems are compatible with the following classes of HPE ProLiant servers and storage products.
• HPE ProLiant DL Servers
• HPE ProLiant ML Servers
• HPE StoreEver 1U Rack-mount Kit

For details of which HPE RDX Removable Disk Cartridges work with which systems, including third-party systems,

visit: http://www.hpe.com/storage/spock for the latest hardware compatibility information.

NOTE: Hewlett Packard Enterprise recommends that no more than one HPE RDX Removable Disk Backup System be connected
to a system at a time.

OS Support	
Operating System	**Version**
Windows Client & Server Operating Systems	Windows Server 2016 Standard & Data Center (x86, x64), Windows 10 Home & Pro (x86, x64), Windows Server 2012 R2 (x64), Windows Server 2012 (x64), Windows Small Business Server 2011 (x64), Windows Server 2008 R2 (x64), Windows Server 2008 (x86, x64), Windows Server 2003 R2 (x86, x64), Windows Server 2003 (x86, x64), Windows 8.1 (x86, x64), Windows 8 (x86, x64) Windows 7 (x86, x64) SP1, Windows Vista (x86, x64) SP1 or later, Windows XP (x86) SP2 or later)
Linux Distributions (Kernal ver. 2.6.9 and later)	RedHat Enterprise Linux SUSE Linux Enterprise Server CentOS Linux Fedora Core 5 Clear OS
Apple	Mac-OS (OS X) 10.3 and up
Virtualization Compatibility	vSphere 6.5, Windows Server 2012, Hyper-V, KVM, Clear OS, XenServer

NOTE: Please visit: http://www.hpe.com/storage/spock for the latest operating system compatibility information.

Backup Software Support
Veeam Endpoint, Windows Backup, Yosemite Server Backup Basic Software, HPE Data Protector Express, CA BrightStor ARCServe Backup, Symantec Backup Exec, and other backup applications that support removable disk media
NOTE: Please visit: http://www.hpe.com/storage/spock for the latest compatibility information.

Warranty
Hewlett Packard Enterprise provides a 3 year, next-day, parts exchange, limited warranty for the HPE RDX Removable Disk Cartridge, plus 9x5 phone support for the duration of the warranty.
For more information about the HPE RDX Removable Disk Cartridge limited warranty, visit: http://h20565.www2.hpe.com/portal/site/hpsc/public?ac.admitted=1507638979203.125225703.1851288163
For more information about HPE's Global Limited Warranty and Technical Support, please visit:

Configuration Information

Models SKU

HPE RDX 1TB Removable Disk Cartridge Q2044A
HPE RDX 2TB Removable Disk Cartridge Q2046A

Related Hardware Options
HPE RDX Internal
HPE RDX Internal Docking Station C8S06A
• RDX Removable Disk Backup System Internal Docking Station installation poster/flyer,
internal USB cable, power cable. Is backwards and forwards compatible with any RDX capacity
media.
HPE RDX External
HPE RDX External Docking Station C8S07B
• RDX Removable Disk Backup System External Docking Station installation poster/flyer,
external USB Y-cable. Is backwards and forwards compatible with any RDX capacity media

Technical Specifications

Performance and Compatibility

Native Capacity	500GB, 1TB, 2TB, 3TB or 4TB
Compressed* Capacity	1TB, 2TB, 4TB, 6TB or 8TB **NOTE:** *Assumes 2:1 application based data compression.
Native average sustained transfer rate	Up to 100 MB/s
Compressed* average sustained transfer rate	Up to 200 MB/s **NOTE:** *Assumes 2:1 application based data compression.
Average Access time	< 15 ms
Supported File Systems	NTFS, FAT32, ext2, ext3, ext4 and Mac OS Extended (HFS+)
Supported Operating Systems	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, OS X (HPE RDX Compatibility details are available at **http://www.hpe.com/storage/spock**)
RDX Cartridge Compatibility	Forward and backward compatible to all RDX drives and systems (Note, a firmware upgrade is required for legacy RDX USB 2.0 drives, for use with 3TB or 4TB cartridges. See **http://www.hpe.com/support/rdx**).

Reliability

MTBF (Drive)	550,000 hours	
Uncorrected Error Rate	1 error per 1014 bits read	
Load/ Unload Cycles	Drive	Minimum of 10,000 Load/Unload cycles
	Cartridge	Minimum of 5,000 Load/Unload cycles
Cartridge Drop Shock (non-operating)	1m drop to tile over concrete floor	

Power Specifications and Interface

Voltage	Internal Drive	+5V or +12V
	External Drive	+5V (USB powered or Power Adaptor) or +12V (Power Adaptor)
Operating Current during write/read (Typical/Peak)	Internal Drive @ 5V	0.9A / 1. 6A
	Internal Drive @ 12V	0.005A
	External Drive @ 5V	0.9A / 1.6A (powered via USB)
	External Drive @ 5V	1.2A / 2.4A (powered via Power Adaptor)
	External Drive @ 12V	0.5A / 1A (powered via Power Adaptor)
Power Connector	Internal Drive	4-Pin Molex
	External Drive	USB 3.0 Y-cable (supplied) or Power Adaptor (not supplied)
Interface	Internal Drive	USB 3.0 SuperSpeed (Type-B connector)
	External Drive	USB 3.0 SuperSpeed (Type-B connector)

Orientation (Mounting and Operational)	Internal Drive	Horizontal or Vertical
	External Drive	Horizontal or Vertical

Environmental

Operating Conditions	Temperature	+10°C to +40°C (+50°F to +104°F)
	Vibration	0.5G (operating)
	Relative Humidity	20% to 80%, non-condensing
	Altitude	-15 m to 3,048 m (-50 ft to 10,000 ft)
Non-Operating Conditions	Temperature	-40°C to +65°C (-40°F to +149°F)
	Vibration	1.0G (non-operating)
	Relative Humidity	8% to 90%, non-condensing
	Altitude	-15 m to 10,660 m (-50 ft to 35,000 ft)
Archival Conditions	Temperature	5°C to +26°C (41°F to 78°F)
	Relative Humidity	8% to 90%, non-condensing
	Maximum Wet Bulb	25°C (77°F), non-condensing

Dimensions Product only (no Packaging)	Internal Drive (H x W x D)	1.63 x 5.78 x 6.72 inches (4.14 x 14.60 x 17.07 cm) including bezel
	External Drive (H x W x D)	2.04 x 4.32 x 7.00 inches (5.18 x 10.98 x 17.75 cm) including bezel
	Cartridge (H x W x D)	0.92 x 3.39 x 4.68 inches (2.34 x 8.66 x 11.9 cm)
Shipping (Product and Packaging)	Internal Drive (H x W x D)	8.1 x 11.2 x 3.3 inches (20.9 x 28.0 x 8.6 cm)
	External Drive (H x W x D)	6.5 x 9.8 x 3.6 inches (16.4 x 25.0 x 9.2 cm)
	Internal System** (H x W x D)	8.1 x 14.6 x 3.3 inches (20.9 x 37.0 x 8.6 cm)
	External System** (H x W x D)	6.7 x 9.8 x 5.5 inches (17.0 x 25.0 x 14.0 cm)
	Cartridge only (H x W x D)	4.52 x 7.48 x 2.75 inches (11.5 x 19.0 x 7.0 cm)

NOTE: **System = Drive and Cartridge.

Weights	Internal Drive	1.40 lb (408g)
	External Drive	1.35 lb (615g)
	Cartridge	up to 0.60 lb (272g) HDD dependent

Shipping (Products and Packaging)	Internal Drive	2.38 lb (1080g)
	External Drive	2.28 lb (1036g)
	Internal System**	3.08 to 3.37 lb (1395 to 1527g) HDD dependent
	External System**	3.12 to 3.35 lb (1414 to 1519g) HDD dependent
	Cartridge	0.76 lb to 1.04 lb (344g to 470g) HDD dependent

NOTE: **System = Drive and Cartridge.