

### Overview

### 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

### What's New

- RDX 4TB Removable Disk Cartridge

### Key Features & Benefits

- Easy scalability with a choice of 500 GB, 1 TB, 2 TB, 3 TB and 4 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

#### Description

HPE RDX 500GB Removable Disk Cartridge  
HPE RDX 1TB Removable Disk Cartridge  
HPE RDX 2TB Removable Disk Cartridge  
HPE RDX 4TB Removable Disk Cartridge

#### SKU

Q2042A  
Q2044A  
Q2046A  
Q2048A

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## Standard Features

### 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 320 GB, 500 GB, 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.

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### 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 500 GB, RDX 1 TB and RDX 2 TB cartridges are tested to withstand a drop of 1 meter (3 ft).

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### 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.

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### 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.

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

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## Standard Features

### 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 (Kernel ver. 2.6.9 and later) | RedHat Enterprise Linux<br>SUSE Linux Enterprise Server<br>CentOS Linux<br>Fedora Core 5<br>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  |

**Notes:** 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

**Notes:** 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:

<http://h20565.www2.hpe.com/portal/site/hpsc/public?ac.admitted=1507638979203.125225703.1851288163>



## Service and Support

### HPE Pointnext - Service and Support

**Get the most from your HPE Products.** Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services** focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

### Consume IT on your terms

**HPE GreenLake** brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

### Managed services to run your IT operations

**HPE GreenLake Management Services** provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

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### Free up resources with Operational Services from HPE Pointnext

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

### Recommended Services

#### HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

#### HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/complecare>



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## Service and Support

### For more information

- <http://www.hpe.com/services>
- <https://www.hpe.com/us/en/services/operational.html>

To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

HPE Support Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
  - Customers purchasing from a commercial reseller can find HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>
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## Configuration Information

### RDX Models

**Description****SKU**

HPE RDX 500GB Removable Disk Cartridge

Q2042A

HPE RDX 1TB Removable Disk Cartridge

Q2044A

HPE RDX 2TB Removable Disk Cartridge

Q2046A

HPE RDX 4TB Removable Disk Cartridge

Q2048A

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### 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  
**Notes:** \*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  
**Notes:** \*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>).

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### Reliability

- **MTBF (Drive)**  
550,000 hours
- **Uncorrected Error Rate**  
1 error per 10<sup>14</sup> 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

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### Power Specifications and Interface

#### Voltage

- **Internal Drive**  
+5V or +12V
  - **External Drive**  
+5V (USB powered or Power Adaptor) or  
+12V (Power Adaptor)
- 



## Technical Specifications

### 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)
- 





## Technical Specifications

### 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)

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### 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

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### 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)

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### 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)

**Notes:** \*\*System = Drive and Cartridge.

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### Weights

- **Internal Drive**  
1b (408g)
- **External Drive**  
1.35 lb (615g)
- **Cartridge**  
Up to 0.60 lb (272g) HDD dependent



## Technical Specifications

### 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

**Notes:** \*\*System = Drive and Cartridge.

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## Summary of Changes

| Date        | Version History | Action  | Description of Change   |
|-------------|-----------------|---------|---|
| 01-Nov-2021 | Version 20      | Changed | Service and Support section was updated.  |
| 14-Jun-2021 | Version 19      | Changed | Overview section was updated.   |
| 07-Jun-2021 | Version 18      | Changed | Obsolete SKU was removed  |
| 06-Jul-2020 | Version 17      | Changed | QuickSpecs layout was updated and Branding Refresh was applied.   |
| 06-Apr-2020 | Version 16      | Changed | QuickSpecs layout was updated   |
| 15-Oct-2018 | Version 15      | Changed | SKU descriptions were updated.<br>Obsolete models were removed.   |
| 06-Nov-2017 | Version 14      | Changed | Fixed the Tech Specs section  |
| 25-Sep-2017 | Version 13      | Changed | Changes made throughout the QuickSpecs  |
| 08-May-2017 | Version 12      | Changed | Changes made to the Overview and Product Highlights sections  |
| 27-Mar-2017 | Version 11      | Changed | Changes made to the Overview Section  |
| 07-Jun-2016 | Version 10      | Changed | Added 3TB capacity information and related hardware   |
| 16-Oct-2015 | Version 9       | Removed | Removed 320GB cartridges, updated picture to not show that cartridge.<br>Removed specific mention of DL server modules, as those SKU's are EOL.<br>Removed external backup system SKU's (EOL).<br>Removed mention of CDP software, replaced with mention of Yosemite Server Backup Basic and Fixed Disk mode. |
| 31-Mar-2014 | Version 8       | Changed | Changes made to Overview, What's New, Features and Technical Specifications sections.   |
| 23-Aug-2013 | Version 7       | Changed | Added "HPE" the Models.   |
| 13-Aug-2013 | Version 6       | Changed | Changes made throughout the QuickSpecs.   |
| 15-Nov-2010 | Version 5       | Changed | RDX 1TB Removable Disk Cartridge was added and RDX 750GB Removable Disk Cartridge was removed throughout the QuickSpecs.  |
| 16-Aug-2010 | Version 4       | Changed | Changes made within the Overview, Servers Supported and Technical Specifications  |
| 05-Jun-2009 | Version 3       | Changed | Updated the Disk Speed, Out Of Box Weight and Shipping Weight for the RDX 500GB Cartridge in the Technical Specifications section.  |
| 17-Nov-2008 | Version 2       | Changed | Changes made throughout the entire QuickSpecs except for the Warranty information   |
| 23-Jun-2008 | Version 1       | New     | New QuickSpecs  |

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For HR RDX drives and media, 1GB = 1 billion bytes. Actual formatted capacity may be less.}

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