RDX Compatibility Guide

Operating System Compatibility

The RDX Dock is compatible with the following operating systems:

Operating System	Release	Notes
Windows XP	SP3	
Windows Vista	32 & 64 Bit Ultimate SP2	
Windows 7	32 & 64 bit	2
Windows 8 / 8.1		
Windows Server 2003 SP2	32 & 64 Bit, All Editions	1
Windows Server 2008 SP2	32 & 64 Bit, All Editions	2
Windows Server 2012 / R2		
CentOS Linux	v4.2 kernal v2.6.9	
Fedora Core 5	Kernel version 2.6	
RHEL	v3.0 Update 7 and later	
SLES	V9.0 Service Pack 3 and later	3

Notes:
1. Small Business Edition backup wizard does not allow the user to select the RDX or any other removable drive as the backup target. Workaround is listed in Microsoft KB article 925097 or use NT Backup.
2. There are limitations with the native backup application.
3. SLES 9 Service Pack 3 does not support SATA ATAPI devices and therefore does not support the RDX Internal SATA device.

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File System Compatibility

In principle RDX cartridges can be formatted for any file system. The following file systems have been tested by Imation:

File System	OS (s)	Notes
FAT32	Windows XP Windows Server 2003 R2 Windows Vista SP1 Windows Server 2008 R2	• Max file size = 4GB • Windows does not allow user to reformat cartridge as FAT32 • Windows Explorer may not display volume label the first time a cartridge is inserted
NTFS	Windows XP Windows XP Pro Windows Vista SP1 Windows 7 Windows 8 Windows 8.1 Windows Server 2003 Windows Server 2003 R2 Windows Server 2008 Windows Server 2008 R2 Windows Server 2012 Windows Server 2012 R2	
exFAT	Windows 7 Windows 8 Windows 8.1 Windows Server 2008 Windows Server 2008 R2 Windows Server 2012 Windows Server 2012 R2	
ext2	Linux	
ext3	Linux	
Mac OS Extended	Mac OS X	

Backup & Disaster Recovery Software

Imation has tested the RDX Dock with the backup software applications listed below:

Company	Product	Version	Notes	Link
EMC	Retrospect	7.5 and newer	1	http://www.retrospect.com/en/devices/a0JU00000027E8kMAE
Symantec	Backup Exec	11d, 12d, 12.5, 2010, 2012	3	http://www.symantec.com/business/support/index?page=content&id=TECH175582
Yosemite	Tapeware	8.1, 9.0.01	4	http://www.barracudaware.com/support/devices?mfr=Imation&type=
Microsoft	Windows NT Backup		11	
Microsoft	Windows Native Backup Utility		6	
CA	Arcserve	R15, R16	5	https://support.ca.com/irj/portal/anonymous/phpsupcontent?contentID=133729&productID=5040.
Open Source	TAR		2	
Comm Vault	Simpana	9		http://services.commvault.com/Support/CompatibilityMatrices
IBM	Tivoli	6.3	7	http://www.ibm.com/software/sysmgmt/products/support/IBM_TSM_Supported_Devices_for_AIXHPSUNWIN.html
IBM	Tivoli (w Linux)	6.3	8	http://www.ibm.com/software/sysmgmt/products/support/IBM_TSM_Supported_Devices_for_Linux.html
NetVault	NetVault / Quest	8.6.3	9, 10	http://www.quest.com/docs/netvault-backup-compatibility-list-supported-vtls-libraries-tape-and-optical-drives-technicalbrief-6997.pdf
Acronis	Backup for PC Backup for Windows Server	11.5		

Notes:
1. Microsoft compatible version is 8.1, Windows minimum driver update 7.5.10.104, Linux compatible version is 6.1
2. For spanning across RDX cartridges use the tar –M –L size option (where size is the cartridge capacity in kilobytes) when creating multiple-volume backups. For more information refer to the main page for tar.
3. Backup Exec version 12.5 is not compatible with Windows Server 2008 R2.
4. Yosemite Backup Basic
5. Arcserve Test fix T146567 required
6. Microsoft native backup utility included with Server 2008 R2 has the following limitations:
    a. Scheduled image backup is not supported.
    b. Individual file restore is not supported.
    c. Partial system backup is not supported.

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7. Tested with TSM versions 6.1.5 and 6.3.2 on Windows
8. Tested with TSM version 6.2.4 on Linux
9. SATA Minimum Firmware level – 2040
10. USB 3.0 Minimum Firmware level – 4103
11. A hotfix is available from Microsoft that allows NT Backup on Windows Server 2003 to support spanning across RDX cartridges. See Microsoft KB article 932059.

SATA Host Bus Adapter Compatibility

The internal SATA RDX device has been tested against the SATA Host Bus Adapters listed below:

HBA or Motherboard	Notes
Intel ICH6	
Intel ICH6R	
Intel ICH7	
Intel ICH7R	
Intel ICH8R	
Intel ICH9R	
Intel ICH10	
Intel ESB2	
Silicon Image 3112	1, 2, 3
Silicon Image 3114	1
Silicon Image 3124	1, 2, 3
Intel S3000AHV Motherboard	non-RAID or Matrix RAID modes - 4
Promise SATA300 TX4 4-port	5, 7,8 (not a recommended configuration)
Promise TX300	5, 7,8 (not a recommended configuration)
Broadcom HT1000	6

Notes:
1. Silicon Image HBA's may require updated BIOS and drivers to work with SATA ATAPI devices.
2. Can only format the cartridge using the "quick format" option under Windows.
3. Windows Check Disk utility does not operate correctly.
4. Does not work in Intel Embedded Server RAID mode.
5. Eject button does not operate correctly.
6. May require a driver update from Broadcom in order to operate in QDMA mode.
7. Write protected cartridges cannot be read on Windows hosts due to a limitation of the Promise driver. The issue has not been tested on Linux systems.
8. Use of Promise SATA add-in card with button eject requires RDX host tools release 1.33 or later and registry key workaround value
   SYSTEM\\CurrentControlSet\\Services\\RDXmon\\Configuration\\ScsiMediaDetection to be set.
   Setting this registry key may keep the cartridge volume label from being detected in some cases.

Data Management Software Compatibility

The Imation RDX A8 has been tested against the data management software applications listed below:

Company	Product	Version	Notes
QStar	Archive Manager	6.0.1	

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Virtualization Software Compatibility

The Imation RDX A8 has been tested against the virtualization software applications listed below:

Company	Product	Version	Notes
VMWare	Various	Various	RDX A8 has been tested as a Datastore, and as a storage target for guest VMs.
Microsoft	Hyper-V	Windows 8 and later Server 2012 and later	

USB Compatibility

The USB RDX device works with all USB controllers. Imation has tested the USB RDX device against the USB controller types listed below (used specific controllers from most major USB controller manufacturers):

Host Controller Types		Notes
xHCI (3.0)	eXtensible Host Controller Interface	
EHCI (2.0)	Enhanced Host Controller Interface	
UHCI (1.1)	Universal Host Controller Interface	
OHCI (1.1)	Open Host Controller Interface	

The USB RDX device is compatible with the USB Mass Storage Specification for Bootability 1.0.

The USB RDX device is certified by the USB Implementer's Forum (USB-IF) to meet the SuperSpeed (USB 3.0) and High Speed (USB 2.0) Compliance Standards.

RDX Eject Button Support

RDX Docking Stations:

Windows
Windows does not have native support for removable disk drives. Specifically, the operating system does not allow the eject button to operate with cartridges formatted with the NTFS file system. It does allow the user to eject the cartridge using Windows Explorer (right-click on drive letter, select "Eject").

Imation supplies a utility that allows the eject button to operate properly on Windows. This utility runs as a Windows service. See the RDX Users Guide for installation instructions.

Linux/Mac OS X
Linux and Mac OS X do not typically support the eject button operation. Use the recommended system method to eject the removable media.

RDX A8:

JBOD Mode
The Eject Button on each slot functions independently. When a slot is not connected via iSCSI to a Host, the Eject Button on that slot is functional. When a slot is connected via iSCSI, Windows right click eject works to eject the cartridge from that slot. Also utility works to allow Eject Button.

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Tape Library Mode
The Backup application controls all slots. Typically the "Export" cartridge command in a Backup application will remove the cart from its active library and eject the cart. This behavior varies with each Backup application.