# rdx QUIKSTOR

# RDX<sup>®</sup> QuikStor<sup>™</sup>

Sphere**3D** 

# Rugged, Reliable and Removable Storage for your Business

overland

TANDBERG DATA

The Tandberg Data RDX QuikStor media-based removable storage system offers rugged, reliable and convenient storage for backup, archive, data interchange and disaster recovery. It provides enterprise performance and fast access, with transfer rates up to 330 MB/s and is available with up to 4TB per cartridge.

#### **Enterprise Reliability**

The exploding growth of mission-critical digital content combined with government regulated retention policies has created a need for secure, reliable and portable data protection solutions at an affordable cost. The Tandberg Data RDX QuikStor technology delivers a rugged design for maximum data protection and secure handling. Full backward/forward compatibility allows users to scale to higher capacities, without worrying about drive generations.

#### **High Performance**

SuperSpeed USB 3.0 and SATA III interfaces offer high performance. With a choice of hard disk and solid-state disk media, unique performance requirements are met. From professional workstations to the low-end enterprise, RDX QuikStor provides users with best-in-class backup and archive capability that is ideally suited to help users get their businesses up and running quickly in the event of data loss.

## External USB3+ Version for more mobility

The external RDX USB3+ drive only needs a USB3.0 connection to work. It is as easy to use as an external USB disk drive but much more robust and reliable. This enables RDX for outdoor usage like scientific data collection, in the media and entertainment environment, mobile workforce or just for easy data distribution across locations.

## Fixed Disk Mode for Windows® Backup

Windows-Backup of current operating systems does not support removable media any more. Users are constrained either to refrain from an operating system upgrade, or to use a third party backup software. RDX QuikStor provides a fixed disk mode in USB3.0 and USB3+ drives and allows a seamless integration into Windows-backup utility.

## Capacity Expansion and Media Rotation

Media Spanning to multiple RDX media allows backups to grow and to expand capacity beyond a single RDX media. All that is needed: Multiple RDX media and supporting backup software. For best practice, multiple media should be used for backup and stored off-site for disaster recovery purposes. A minimum rotation of 3 media is recommended: 1st in drive for next backup, 2nd in transit and 3rd off-site for disaster recovery.

## **Additional Protection**

RDX WORM enhances RDX for compliant archiving (optional software solution). RDX Cartridge Encryptor (RCE) is free software to encrypt data stored on RDX media. All new SATA III drives are hardware encryption aware. \*\*





DATA SHEET

#### **Key Benefits**

- Fast Access
   Disk-based speed and data-access
- Budget-Friendly Cost-effective solution that suits all sectors from SOHO users to departmental users
- Flexible

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USB3.0 SuperSpeed and SATA III interface, internal and external drives, SSD and HDD media in different capacities

#### Rugged and Tough

Rugged, shock and electrostatic proof media with more than 10 years archive life

#### Convenient & Secure

Expand capacity and span backups across media. Media rotation and off-site copies for archiving and peace of mind

Encryption

Software encryption is supported for all RDX drives. The new SATA III drives are hardware encryption aware\*\*

Mobile

The external USB3+ version can be used as a mobile storage device

19"-Rack Integration with QuadPAK<sup>™</sup> Up to 4 external RDX USB drives can be easily installed in a

## 19"-rack

#### Windows-Backup support

Configurable operating mode for Windows Backup Application in all USB3.0 versions

\* Typical \*\* With f/w support, available 2017

# rdx QUIKSTOR





Internal RDX DrivesExternal RDX DrivesForm factor3.5" (SATA/USB3.0)5.25" (SATA/USB3.0)External RDX DrivesHeight41 mm (1.63 in)41 mm (1.63 in)5.25" (SATA/USB3.0)External Housing (USB3.0)Width102 mm (4.00 in)146 mm (5.78 in)100 mm (4.32 in)100 mm (4.32 in)Length109 mm (6.28 in) incl. bezel17.07 zm (6.72 in) incl. bezel17.8 mm (7.00 in) incl. bezelWeight408 g (0.9 lb)635 g (1.4 lb)615 g (1.35 lb)Mounting & Operating OrientationHorizontal or VerticalInterfaceSATA IIIUSB3.0USB3.0 (USB powered)Interface Operation ModeRemovable diskRemovable diskRemovable diskInterface Operation ModeRemovable diskRemovable diskRemovable diskTransfer Rate Average SustainedUp to 330 MB/s*Up to 260 MB/s*Up to 260 MB/s*Voltage+5 V+5 V+12 V+5 V (USB powered)Current at Read/Write (Typical / Peak)0.9 A / 1.6 A0.9 A / 1.6 A0.00 sm A / 1.4 A0.9 A / 1.6 APower ConnectorSATA PowerSATA PowerSATA Power to 4-Pin Molexoptional: 5.5 mm $\bigcirc - C \odot$ Power Adapter4-Pin Molex to SATA PowerSATA Power to 4-Pin Molexoptional: 5.5 mm $\bigcirc - C \odot$ Power AdapterSATA PowerSATA Power to 4-Pin Molexoptional: 5.4 k to 4+12 V (+/-10%) 2.4 k to 4+12 V (+/-10%) 2.	Specifications					
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Weight     408 g (0.9 lb)     635 g (1.4 lb)     615 g (1.35 lb)       Mounting & Operating Orientation     Horizontal or Vertical       Interface     SATA III     USB3.0     USB3.0 (USB powered)       Interface Connector     SATA     Type-B     Type-B       Interface Operation Mode     Removable disk     Removable disk & Fixed disk     Removable disk & Fixed disk       Transfer Rate Average Sustained     Up to 330 ME/s*     Up to 260 MB/s*     Up to 260 MB/s*       Power specifications           Voltage     +5 V     +5 V     +12 V     +5 V (USB powered)       Current at Read/Write (Typical / Peak)     0.9 A / 1.6 A     0.005 mA / 1.4 A     0.9 A / 1.6 A       Power Connector     SATA Power     4-Pin Molex     optional: 5.5 mm Order       Power Adapter     4-Pin Molex to SATA Power     SATA Power to 4-Pin Molex     optional: 5.5 mm Order       Power Connector     SATA Power     SATA Power to 4-Pin Molex     optional: 5.5 mm Order       Read/Write Compatibility     Forward/backward compatibility to all RDX drives and systems       Reliability      Im drop to tile over concrete floor (Media)       Load-/ Unload (Minimum)     Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles       MTBF      550.000 Hours       Vibration (max)	Width	102 mm (4.00 in)	146 mm (5.78 in)		110 mm (4.32 in)	
Mounting & Operating Orientation         Horizontal or Vertical           Interface         SATA         II         USB3.0         USB3.0         USB3.0 (USB powered)           Interface Connector         SATA         Type-B         Type-B         Type-B           Interface Operation Mode         Removable disk         Removable disk & Fixed disk         Removable disk & Fixed disk           Transfer Rate Average Sustained         Up to 330 MB/s*         Up to 260 MB/s*         Up to 260 MB/s*           File Access Time (average)         -         <15 milliseconds	Length	159 mm (6.28 in) incl. bezel	170.72 mm (6.72 in) incl. bezel		178 mm (7.00 in) incl. bezel	
Interface         SATA III         USB3.0         USB3.0 (USB powered)           Interface         SATA         Type-B         Type-B         Type-B           Interface Operation Mode         Removable disk         Removable disk & Fixed disk         Removable disk & Fixed disk           Transfer Rate Average Sustained         Up to 330 MB/s*         Up to 260 MB/s*         Up to 260 MB/s*         Up to 260 MB/s*           File Access Time (average)          <15 milliseconds	Weight	408 g (0.9 lb)	635 g (1.4 lb)		615 g (1.35 lb)	
Interface Connector     SATA     Type-B     Type-B       Interface Operation Mode     Removable disk     Removable disk & Fixed disk     Removable disk & Fixed disk       Transfer Rate Average Sustained     Up to 330 MB/s*     Up to 260 MB/s*     Up to 260 MB/s*       File Access Time (average)	Mounting & Operating Orientation	Horizontal or Vertical				
Interface Operation Mode     Removable disk     Removable disk & Fixed disk     Removable disk & Fixed disk       Transfer Rate Average Sustained     Up to 330 MB/s*     Up to 260 MB/s*     Up to 260 MB/s*       File Access Time (average)	Interface	SATA III	USB3.0		USB3.0 (USB powered)	
Transfer Rate Average SustainedUp to 330 MB/s*Up to 260 MB/s*Up to 260 MB/s*File Access Time (average) $- < 15 \text{ milliseconds}$ Power specificationsVoltage $+5 V$ $+5 V$ $+12 V$ $+5 V (USB powered)$ Current at Read/Write (Typical / Peak) $0.9 A / 1.6 A$ $0.09 A / 1.6 A$ $0.005 \text{ mA} / 1.4 A$ $0.9 A / 1.6 A$ Power ConnectorSATA Power $4$ -Pin Molexoptional: 5.5 m $\bigcirc$ optional: 5.5 m $\bigcirc$ optional wall adapters: $+5 V (+'. 10\%) 2.4 A$ to $+12 V (+'. 10\%) 1.0 A$ Power Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexPower Adapter $4$ -Pin Molex to SATA PowerSATA Power to $4$ -Pin Molex $4$ -Pin MolexReliability $5$ -OCC $4$ -Pin Molex $4$ -Pin Molex $4$ -Pin MolexMedia Drop Shock (Non-operating) $1$ -M drop to tile over correte floor (	Interface Connector	SATA	Туре-В		Туре-В	
File Access Time (average)       < < 15 milliseconds	Interface Operation Mode	Removable disk	Removable disk & Fixed	d disk	Removable disk & Fixed disk	
Power specifications         Voltage       +5 V       +5 V       +12 V       +5 V (USB powered)         Current at Read/Write (Typical / Peak)       0.9 A / 1.6 A       0.9 A / 1.6 A       0.005 mA / 1.4 A       0.9 A / 1.6 A         Power Connector       SATA Power       4-Pin Molex       optional: 5.5 mm O       O       O         Power Adapter       4-Pin Molex to SATA Power       4-Pin Molex       optional: 6.5 mm O       O       O         Media       Capacity       SATA Power to 4-Pin Molex       SATA Power to 4-Pin Molex       SATA Power to 4-Pin Molex       +12 V (+/-10%) 2.4 A to +12 V (+/-10%) 2.4 A to +12 V (+/-10%) 1.0 A       +12 V (+/-10%) 2.4 A to +12 V (+/-10%) 1.0 A       +12 V (+/-10%) 1.0 A	Transfer Rate Average Sustained	Up to 330 MB/s*	Up to 260 MB/s*		Up to 260 MB/s*	
Voltage       +5 V       +5 V       +12 V       +5 V (USB powered)         Current at Read/Write (Typical / Peak)       0.9 A / 1.6 A       0.9 A / 1.6 A       0.005 mA / 1.4 A       0.9 A / 1.6 A         Power Connector       SATA Power       4-Pin Molex       optional: 5.5 mm O_C_O       O         Power Adapter       4-Pin Molex to SATA Power       SATA Power to 4-Pin Molex       optional: 0.9 A / 1.6 A       0.9 A / 1.6 A         Media       Capacity       SATA Power       SATA Power to 4-Pin Molex       optional: s.5 mm O_C_C_O       O         Read/Write Compatibility       SATA Power       SATA Power to 4-Pin Molex       optional: s.5 mm O_C_C_O       O         Read/Write Compatibility       Satter       Satter       Satter       Satter       Satter         Media Drop Shock (Non-operating)       Forward/backward compatibility to all RDX drives and systems       Tm drop to tile over concrete floor (Media)         Load-/ Unload (Minimum)       Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles       S50,000 Hours         Vibration (max)	File Access Time (average)	< 15 milliseconds				
Current at Read/Write (Typical / Peak)       0.9 A / 1.6 A       0.9 A / 1.6 A       0.005 mA / 1.4 A       0.9 A / 1.6 A         Power Connector       SATA Power       4-Pin Molex       optional: 5.5 mm       O	Power specifications					
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Fortice AddptsFortice is of the order is the minister+5 V (+/- 10%) 2.4 A to +12 V (+/- 10%) 1.0 AMediaCapacity500GB, 1TB, 2TB, 3TB or 4TB (HDD) / 128GB or 256GB See RDX Media data sheet for more informationRead/Write CompatibilityForward/backward compatibility to all RDX drives and systemsReliabilityMedia Drop Shock (Non-operating)Media Drop Shock (Non-operating)Im drop to tile over concrete floor (Media)Load-/ Unload (Minimum)Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cyclesMTBF550,000 HoursVibration (max)0.5G (operating), 1.0G (non-operating)	Power Connector	SATA Power	4-Pin Molex		optional: 5.5 mm	
Capacity500GB, 1TB, 2TB, 3TB or 4TB (HDD) / 128GB or 256GB See RDX Media data sheet for more informationRead/Write CompatibilityForward/backward compatibility to all RDX drives and systemsReliabilityMedia Drop Shock (Non-operating)Media Drop Shock (Non-operating)1m drop to tile over concrete floor (Media)Load-/ Unload (Minimum)Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cyclesMTBF550,000 HoursVibration (max)0.5G (operating), 1.0G (non-operating)	Power Adapter	4-Pin Molex to SATA Power	SATA Power to 4-Pin Molex		+5 V (+/- 10%) 2.4 A to	
Contraction       See RDX Media data sheet for more information         Read/Write Compatibility       Forward/backward compatibility to all RDX drives and systems         Reliability       Forward/backward compatibility to all RDX drives and systems         Media Drop Shock (Non-operating)       1m drop to tile over concrete floor (Media)         Load-/ Unload (Minimum)       Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles         MTBF       550,000 Hours         Vibration (max)       0.5G (operating), 1.0G (non-operating)	Media			1		
Reliability         Media Drop Shock (Non-operating)       1m drop to tile over concrete floor (Media)         Load-/ Unload (Minimum)       Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles         MTBF       550,000 Hours         Vibration (max)       0.5G (operating), 1.0G (non-operating)	Capacity					
Media Drop Shock (Non-operating)       1m drop to tile over concrete floor (Media)         Load-/ Unload (Minimum)       Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles         MTBF       550,000 Hours         Vibration (max)       0.5G (operating), 1.0G (non-operating)	Read/Write Compatibility	Forward/backward compatibility to all RDX drives and systems				
Media Drop Shock (Non-operating)       1m drop to tile over concrete floor (Media)         Load-/ Unload (Minimum)       Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles         MTBF       550,000 Hours         Vibration (max)       0.5G (operating), 1.0G (non-operating)	Reliability					
Load-/ Unload (Minimum)     Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles       MTBF     550,000 Hours       Vibration (max)     0.5G (operating), 1.0G (non-operating)		1 m drop to tile over concrete floor (Media)				
MTBF     550,000 Hours       Vibration (max)     0.5G (operating), 1.0G (non-operating)		Drive: 10,000 insertion / removal cycles, Media: 5,000 insertion / removal cycles				
		550,000 Hours				
Environmental	Vibration (max)	0.5G (operating), 1.0G (non-operating)				
	Environmental					
Temperature +10°C to +40°C (+50°F to +104°F) (operating), -40°C to +65°C (-40°F to +149°F) (non-operating)	Temperature	+10°C to +40°C (+50°F to +104°F) (operating), -40°C to +65°C (-40°F to +149°F) (non-operating)				
Relative Humidity 20% – 80% (non-condensing, operating), 8% – 90% (non-condensing, non-operating)	Relative Humidity	20% – 80% (non-condensing, operating), 8% – 90% (non-condensing, non-operating)				
Altitude -15 m to 3,048 m (-50 ft to 10,000 ft) (operating), -15 m to 10,660 m (-50 ft to 35,000 ft) (non-operating)	Altitude	-15 m to 3,048 m (-50 ft to 10,000 ft) (operating), -15 m to 10,660 m (-50 ft to 35,000 ft) (non-operating)				
Other features	Other features					
Encryption Supports software-based and hardware-based (SATA III only**) encryption	Encryption	Supports software-based and hardware-based (SATA III only**) encryption				
WORM Enables compliant Archiving with rdxLOCK WORM Software						
Compression and Deduplication Supports software-based compression and deduplication						
Windows Backup         Fixed Disk Mode for Windows Backup Utility available in all USB3.0 versions		Fixed Disk Mode for Windows Backup Utility available in all USB3.0 versions				
QuikStation iSCSI based disk appliance with 4 or 8 drives		iSCSI based disk appliance with 4 or 8 drives				

\*Media dependent \*\*With f/w update, available 2017

Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at sales@sphere3d.com. For a full list of Sphere 3D addresses and phone numbers, please see our website at: http://sphere3d.com/contact-us/.

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