RDX® Media
Rugged, Reliable, Removable

The Tandberg Data RDX® technology is a disk-based removable media storage system which offers leading random access performance and high transfer rate like disk along with the archive life, removable/portability and cost benefits of tape. The RDX system consists of a drive and removable disk media with capacities fully forward and backward compatible. RDX is the best of disk and tape combined.

High reliability and easy handling

The Tandberg Data RDX media offers a rugged design for maximum data protection and secure handling. The media is well suited for data protection and archiving. It has an electrostatic proof design and is drop protected. New media types have to pass several tests before they are introduced to the market. This ensures high quality, reliability and durability. The media is keyed, so it is not possible to insert it into the drive in a wrong direction. A write protection switch prevents from deleting or overwriting data.

HDD and SSD versions

The RDX Media is offered in different versions to satisfy various business needs. The HDD-based media is suitable for most backup, archiving and storage tasks. It is available with capacities from 500GB up to 4TB and an affordable solution for SOHOs and smaller SMBs. The SSD-based version fulfills high performance requests and is ideal for data storage and data exchange of large files and for fast backups of big datasets. Its high transfer rate of 330MB/s ensures fast write and read operations. SSD media is ideal for very rough environments and withstands high temperature, humidity and vibration. SSD Media is available from 128GB to 256GB.

WORM for compliance archiving

RDX WORM media meets an expanded set of regulatory compliance requirements and is ideal for use with a large number of archiving applications, like enterprise content management and document management systems, where data must not be deleted or overwritten. WORM is a software based solution and is available for HDD media up to 1TB.

Long archival life and media usage

RDX Media have an archival life of more than 10 years and insertion/ejection cycles of more than 5000 times. This enables RDX not only as an ideal media for backup and long term archiving but also for daily storage usage.

Key benefits

- **Rugged and tough**
  Shock and drop protected design allows operation in rough environments and ensures durability. Vibration isolation ensures write /read performance reliability

- **High quality**
  Designed for business grade applications to backup, archive and store business critical data

- **Static protection**
  RDX Media are protected against electrostatic discharge events

- **Easy handling**
  A keyed media is helping users to insert the cartridge correctly. The rugged design prevents damage from heavy handling

- **High flexibility**
  HDD and SSD Versions fulfill performance requirements, various capacities for all business needs , WORM media for compliance archiving

- **No compatibility issues**
  New generation RDX Media works in all drives and older media works in new generation drives. Backward and Forward compatibility allows user to upgrade to higher capacity media without compromise

- **No cleaning**
  No mechanical parts which require cleaning

- **High duty cycle**
  Over 5000 insertions/ejection, 10 years archival life

Positioning	HDD Media	SSD Media	WORM Media
Use Cases	Suitable for most storage applications	Premium media for high performance demands and harsh environments. Backup, restore of large datasets. Speed for use in work-flow or production environments.	Regulatory compliance storage device for document management applications, finance, video and voice recording, technical documentation
Backup	+	++	-
Archiving	+	-	++
Data Exchange	+	++	+/ -
Advantages	Affordable High capacity	Fast data access High throughput	Meets regulatory requirements

Specifications	HDD Media	SSD Media	WORM Media
Capacity	500GB, 1TB, 2TB, 3TB, 4TB	128GB, 256GB	500GB, 1TB
Performance			
Transfer Rate	USB 3.0: up to 120MB/s SATA III: up to120MB/s	2x better: USB 3.0: up to 260MB/s 3x better: SATA III: up to 330MB/s	USB 3.0: up to 120MB/s SATA III: up to 120MB/s
Access Time	<15ms	30x better: < 0.5ms	<15ms
Compatibility	Compatible to all RDX drives		
Reliability and Data Integrity			
Unrecoverable Error Rate	1 error in 10^{-14} bits read	10x better: 1 error in 10^{-15} bits read	1 error in 10^{-14} bits read
Drop Shock (non-operating)	1m drop to tile over concrete floor	1.5m drop to tile over concrete floor	1m drop to tile over concrete floor
Load/Unload (minimum)	5000 insertion/removal cycles		
MTTF	550,000 Hours	25x better: 15.000.000 Hours	550,000 Hours
Environmental (operating)			
Temperature	10°C to 40°C (50°F to 104°F)		
Relative Humidity	20% - 80%, (non - condensing)		
Vibration	0.5G		
Altitude	-15m to 3,048m (-50ft to 10,000 ft)		
Environmental (shipping)			
Temperature	-40°C to 65°C (-40°F to 149°F)	20° larger temperature range: -40°C to 85°C (-40°F to 185°F)	-40°C to 65°C (-40°F to 149°F)
Relative Humidity	8% - 90%, (non - condensing)	8% more humidity tolerance: 5% - 95%, (non - condensing)	8% - 90%, (non - condensing)
Maximum Wet Bulb	38°C (100°F), (non-condensing)	Higher Wet Bulb temperature: 40°C (104°F), (non-condensing)	38°C (100°F), (non-condensing)
Vibration	1G	20x better: 20G peak (Cartridge)	1G
Altitude	-15m to 10,660m (-50ft to 35,000 ft)	No limit	-15m to 10,660m (-50ft to 35,000 ft)
Archival Environmental			
Media Archive Life	10x better: 10 Years	Up to 1 year	10x better: 10 Years
Temperature	5°C to 26°C (41°F to 78°F)	Not specified	5°C to 26°C (41°F to 78°F)
Relative Humidity	8% - 90%, (non - condensing)	Not specified	8% - 90%, (non - condensing)
Maximum Wet Bulb	25°C (77°F), (non - condensing)	Not specified	25°C (77°F), (non - condensing)
Dimension (HxWxL)	23mm x 87mm x 119mm (0.9in x 3.4in x 4.7in)		
Weight	165g (0.364 lbs.) - 272g (0.600 lbs.) (HDD dependent)	130g (0.286lbs.)	165g (0.364 lbs.) - 272g (0.600 lbs.) (HDD dependent)

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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