

# RDX® Media

## Rugged, Reliable, Removable

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



### High reliability and easy handling

The Overland-Tandberg 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 RDX quality 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 5TB. The SSD-based version fulfills high performance requests and is ideal for data storage and data exchange of big datasets. Its high transfer rate of 330MB/s ensures fast write and read operations. SSD media is ideal for very rough environments, humidity and vibration.

### WORM for compliance Archiving

RDX WORM media meets an expanded set of regulatory compliance requirements and is ideal for use with 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 4TB.

### Protection against Malware Attacks

The RDX RansomBlock feature secures backups on RDX media against virus and ransomware attacks and ensures full recovery in case of infected data and blocked computer systems. The RansomBlock functionality sets all data on the RDX WORM media into a read-only mode. In addition, it allows write operations to RDX media for granted applications and processes.

### RDX TENCASE

RDX TENCASE is the ideal solution for transportation and longterm safe-keeping of up to 10 RDX media. RDX TENCASE is a rugged case, which withstands drops, dust and harsh environments. It is water-resistant and can be secured with two padlocks for theft-protection of critical data.



### Key benefits

- Rugged and Tough**  
 Shock and drop protected media design ensures durability and reliability. 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. Software controlled media eject ensures backup completion before media is removed.
- High Flexibility**  
 HDD and SSD Versions fulfill performance requirements, various capacities for all business needs.
- Optional Security Features**  
 WORM media for compliance archiving, RansomBlock media for full protection against malware attacks.
- 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   |
|---------------------------------------|--|--|--|
| <b>Use Cases</b>                      | 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. Ransomware and virus protection for backup sets. |
| <b>Backup</b>                         | +  | ++   | -  |
| <b>Archiving</b>                      | +  | -  | ++   |
| <b>Data Exchange</b>                  | +  | ++   | +/-  |
| <b>Advantages</b>                     | Affordable<br>High capacity  | Fast data access<br>High throughput  | Meets regulatory requirements or protects against virus and ransomware   |
| Specifications                        | HDD Media  | SDD Media  | WORM Media   |
| <b>Capacity</b>                       | 500GB, 1TB, 2TB, 3TB, 4TB, 5TB   | 128GB, 256GB   | 1TB, 2TB, 4TB  |
| <b>Performance</b>                    |  |  |  |
| <b>Transfer Rate</b>                  | USB 3.0: up to 120MB/s<br>SATA III: up to 120MB/s                                  | 2x better: USB 3.0: up to 260MB/s<br>3x better: SATA III: up to 330MB/s  | USB 3.0: up to 120MB/s<br>SATA III: up to 120MB/s  |
| <b>Access Time</b>                    | <15ms  | 30x better: < 0.5ms  | <15ms  |
| <b>Compatibility</b>                  | Compatible to all RDX drives   |  |  |
| <b>Reliability and Data Integrity</b> |  |  |  |
| <b>Unrecoverable Error Rate</b>       | 1 error in 10-14 bits read   | 10x better: 1 error in 10-15 bits read   | 1 error in 10-14 bits read   |
| <b>Drop Shock (non-operating)</b>     | 1m drop to tile over concrete floor  | 1.5m drop to tile over concrete floor  | 1m drop to tile over concrete floor  |
| <b>Load/Unload (minimum)</b>          | 5,000  |  |  |
| <b>MTTF</b>                           | 550,000 Hours  | 25x better: 15,000,000 Hours   | 550,000 Hours  |
| <b>Environmental (operating)</b>      |  |  |  |
| <b>Temperature</b>                    | 10°C to 40°C (50°F to 104°F)   |  |  |
| <b>Relative Humidity</b>              | 20% - 80%, (non - condensing)  |  |  |
| <b>Vibration</b>                      | 0,5G   |  |  |
| <b>Altitude</b>                       | -15m to 3,048m (-50ft to 10,000 ft)  |  |  |
| <b>Environmental (shipping)</b>       |  |  |  |
| <b>Temperature</b>                    | -40°C to 65°C (-40°F to 149°F)   | 20° larger temperature range:<br>-40°C to 85°C (-40°F to 185°F)  | -40°C to 65°C (-40°F to 149°F)   |
| <b>Relative Humidity</b>              | 8% - 90%, (non - condensing)   | 8% more humidity tolerance:<br>5% - 95%, (non - condensing)  | 8% - 90%, (non - condensing)   |
| <b>Maximum Wet Bulb</b>               | 38°C (100°F), (non-condensing)   | Higher Wet Bulb temperature:<br>40°C (104°F), (non-condensing)   | 38°C (100°F), (non-condensing)   |
| <b>Vibration</b>                      | 1G   | 20x better: 20G peak (Cartridge)   | 1G   |
| <b>Altitude</b>                       | -15m to 10,660m (-50ft to 35,000 ft)   | No limit   | -15m to 10,660m (-50ft to 35,000 ft)   |
| <b>Archival Environmental</b>         |  |  |  |
| <b>Media Archive Life</b>             | 10x better: 10 Years   | Up to 1 year   | 10x better: 10 Years   |
| <b>Temperature</b>                    | 5°C to 26°C (41°F to 78°F)   | Not specified  | 5°C to 26°C (41°F to 78°F)   |
| <b>Relative Humidity</b>              | 8% - 90%, (non - condensing)   | Not specified  | 8% - 90%, (non - condensing)   |
| <b>Maximum Wet Bulb</b>               | 25°C (77°F), (non - condensing)  | Not specified  | 25°C (77°F), (non - condensing)  |
| <b>Dimension (HxWxL)</b>              | 23mm x 87mm x 119mm (0.9in x 3.4in x 4.7in)  |  |  |
| <b>Weight</b>                         | 165g (0.364 lbs.) - 272g (0.600 lbs.)<br>(HDD dependent)                           | 130g (0.286lbs.)   | 165g (0.364 lbs.) - 272g (0.600 lbs.)<br>(HDD dependent)   |
| <b>Accessories</b>                    |  |  |  |
| <b>RDX TENCASE</b>                    | Optional, stores up to 10 RDX media in a robust and secure box (part.-no. 1022291) |  |  |

Sales and support for Overland-Tandberg products and solutions are available in over 90 countries.  
Contact us today at [sales@overlandstorage.com](mailto:sales@overlandstorage.com) or [sales@tandbergdata.com](mailto:sales@tandbergdata.com)

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