

Save

## Deduplicating VTL Appliance

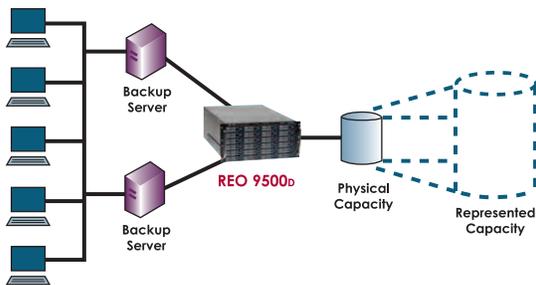
The REO 9500D helps end-users dramatically reduce their overall backup and restore costs by allowing greater retention of backup data on disk. Taking advantage of highly-efficient ProtecTIER data deduplication from Diligent™ Technologies, the REO 9500D will allow end-users to economically store typically 25x more backup data on their Virtual Tape Library (VTL).

### Flexible Virtual Tape Library

The REO 9500D can be configured as multiple Virtual Tape Libraries, allowing fast and efficient backup to disk. Virtual library configurations can be easily modified as required.

### Patented, Highly Efficient Deduplication Technology

The patented HyperFactor™ deduplication process used in the REO 9500D is highly efficient, allowing all of the index data to be stored in RAM for fast access. This assures that high performance is maintained as the amount of stored data grows. This approach also allows for a byte by byte comparison of data, to assure absolute data integrity.



### Simple Integration

As a Virtual Tape Library (VTL) appliance, the REO 9500D arrives ready to integrate into your current backup infrastructure with no hassles. There is no software to install or set-up, just configure your ideal VTL set-up with the easy to use configuration wizard. The REO is compatible with all major backup software packages, and requires no modifications to hosts or backup servers.

### Proven Technology and Support

With more than 5,000 REO Virtual Tape Libraries deployed worldwide, Overland Storage is firmly established as the leading VTL appliance vendor. The REO 9500D leverages that expertise and couples it with the most mature and field-proven enterprise data deduplication technology to deliver the right solution for long-term backup storage on disk. Choosing the REO 9500D assures a successful implementation now, and continued payback for the future.

### REO 9500D Key Benefits:

- **Drastically reduces costs:** decreases tape and backup management costs by keeping months of backup data economically on disk
- **Improves service level agreements** by allowing fast restores from long term disk storage
- **Increases disk capacity use typically up to 25x** without compromising data integrity
- Saves on power, cooling, and rack space

For 27 years, businesses have trusted Overland Storage to reduce the backup window, improve data recovery speed, simplify short- and long-term data retention and make cost-effective disaster recovery a reality. Overland's affordable and reliable data protection solutions ensure data is constantly protected, readily available and always there.

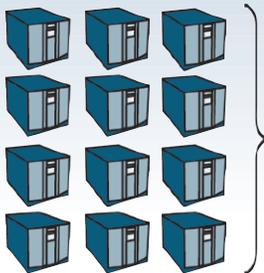
# REO® 9500D



- ➔ Revolutionary VTL Technology
- ➔ Up to 281 usable TB in a 5U chassis
- ➔ Up to 200 MB/Sec
- ➔ Enables fast, reliable backup and recovery
- ➔ Compatible with all popular backup software

**Overland**  
STORAGE®

## REO SERIES - CONFIGURATION EXAMPLE:



### REO 9500d Configuration is User-Definable:

#### Up to 12 Virtual Tape Libraries

- 64 Virtual Tape Drives
- 3,000 Virtual Cartridges

## SPECIFICATIONS

### FUNCTIONALITY

Flexible Virtual Tape Library with data deduplication allows up to 12 library partitions, 64 virtual tape drives, and 3,000 virtual cartridges

### CAPACITY\* (SATA DISKS)

REO 9500d disk arrays are RAID5 protected

3.75 TB                      - OR -                      7.5 TB                      11.25 TB  
93.75 TB                      187.5 TB                      281.25 TB

Base system  
Usable (at 25:1)

### MULTI-STREAM PERFORMANCE

Up to 200 MB/sec

### STANDARD HARDWARE FEATURES

19-inch rack-mount enclosure, hot-plug disk drives, redundant hot-plug power supplies, redundant cooling, dual RAID controllers, 10/100 management port

### EXTERNAL INTERFACES

Data  
Management

Two, 4 Gb Fibre Channel Ports  
One Ethernet management port (RJ45)

### ARRAY CONTROLLER

Dual RAID Controllers

### RAID

RAID 5

### POWER REQUIREMENTS

Voltage  
Frequency  
Current  
Power Cord (US)  
Power Consumption

90 to 120 VAC, 200 to 240 VAC+/-10%  
47 to 63 Hz  
6A @ 115 VAC, 3A @ 230 VAC; 20A max at start-up  
IEC 60320 C13 connectors, four per unit  
Steady state 500 W; Peak 525 W (fully populated)

### ENCLOSURE

Dimensions  
Weight (unpacked)

8.75 x 19.0 x 27.0 inches (22.2 x 48.3 x 68.6 cm) 5U rackmount  
130 lbs. (59 kg)

### ENVIRONMENTAL REQUIREMENTS

Humidity  
Temperature  
Altitude  
Shock  
Vibration

| OPERATING                               | NON-OPERATING                       |
|---|-------------------------------------|
| 20–80% non-condensing                   | 10–95% non-condensing               |
| 10–40° C                                | 40 to 60° C                         |
| -984 to 10,000 ft (-300 to 3,048 m)     | 984 to 30,370 ft (-300 to 12,000 m) |
| 10 G (11 ms half sine pulse)            | 20 G (11 ms half sine pulse)        |
| .25 G swept sine (5–250–5 Hz) no errors | 1.0 G swept sine (5–250–5 Hz)       |

### AGENCY APPROVALS

NRTL (US & Canada), CE, VCCI Class A/CISPR PUB 22 (Japan), BSMI (Taiwan)

### INTEROPERABILITY

Contact Overland Storage or visit [www.overlandstorage.com](http://www.overlandstorage.com) for the most current Fibre Channel, and backup software compatibility matrices

### STANDARD WARRANTY

REO 9500d products are covered by a three-year hardware limited warranty. This warranty is administered worldwide through Field Replaceable Spare XchangeNOW®. At the time of purchase end-users in most areas can purchase up to three years of on-site maintenance coverage to enhance availability or extend services already provided during the warranty period. REO 9500d products do not include software support and maintenance as part of the standard warranty. Support and maintenance on the REO 9500d software is available in one year increments and is included in all on-site support upgrades.

The REO 9500d products require a pre-installation site survey and professional installation by Overland or a qualified installation vendor. Customers within our 150 mile (240km) service area are eligible to purchase Bronze level of support. Professional Service offerings are available upon request.

# Overland Virtual Tape Library Appliances

| Conventional VTLs   |   |   | VTLs with Hardware Compression   |   | Deduplicating VTL   |
|---|---|---|--|---|---|
| Best for: <ul style="list-style-type: none"> <li>• Backups taking too long</li> <li>• Backups failing too often</li> <li>• Too much human error in backup (remote site b/up difficult to manage)</li> </ul> |   |   | Best for: <ul style="list-style-type: none"> <li>• Backups taking too long</li> <li>• Backups failing too often</li> <li>• Too much human error in backup</li> <li>• Managing data growth</li> </ul> |   | Best for: <ul style="list-style-type: none"> <li>• Managing Data Growth</li> <li>• Looking for longer data retention/archive</li> </ul> |
| REO 1500  | REO 4500  | REO 9100  | REO 4500c  | REO 9100c   | REO 9500D   |
|    |  |  |    |  |    |

|  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
| <b>RAW Base Capacity</b>                 | 1TB, 2 TB, 3 TB   | 3 TB, 6 TB, 9 TB  | 3 TB, 6 TB, 9 TB, 12 TB, 18 TB                          | 6 TB, 9 TB  | 12 TB, 18 TB  | 3.75 TB, 7.5 TB, 11.25 TB                               |
| <b>Compression</b>                       | Software  | Software  | Software  | Hardware 2:1  | Hardware 2:1  | Deduplication typically 25:1                            |
| <b>Expansion Available</b>               | No  | Up to 27 TB   | Up to 66 TB   | Up to 45 TB usable                                      | Up to 114 TB usable                                     | No  |
| <b>Usable Capacity Range</b>             | 750 GB - 2.25 TB  | 2.5 TB - 22.5 TB  | 2.5 TB - 51 TB  | 10 TB - 45 TB   | 20 TB - 114 TB  | 45 TB - 135 TB at 12:1<br>90 TB - 281.25 TB at 25:1     |
| <b>Number of Virtual Tape Drives</b>     | 64  | 64  | 64  | 64  | 64  | 64  |
| <b>Number of VTLs</b>                    | 6   | 6   | 4   | 6   | 6   | 12  |
| <b>Number of Virtual Tape cartridges</b> | Up to 512   | Up to 512   | Up to 180   | Up to 512   | Up to 512   | Up to 3,000   |
| <b>iSCSI</b>                             | 109 MB/Sec  | 176 MB/Sec  | 221 MB/Sec  | 176 MB/Sec  | 221 MB/Sec  | N/A   |
| <b>Fibre Channel</b>                     |   | 260 MB/Sec  | 560 MB/Sec  | 260 MB/Sec  | 560 MB/Sec  | 200 MB/Sec  |
| <b>Host Interface</b>                    | 1 GbE iSCSI   | 2 GbE iSCSI<br>2 - 4 Gb Fibre Channel (optional)        | 2 GbE iSCSI<br>2 - 4 Gb Fibre Channel (optional)        | 2 GbE iSCSI<br>2 - 4 Gb Fibre Channel (optional)        | 2 GbE iSCSI<br>2 - 4 Gb Fibre Channel (optional)        | 2 - 4 Gb Fibre Channel                                  |
| <b>Remote Management Interface</b>       | One, 10/100/1000 BaseT Ethernet (for remote management) |
| <b>Capacity Optimization</b>             | Dynamic Virtual Tape                                    | Dynamic Virtual Tape                                    | Dynamic Virtual Tape                                    | Hardware Compression and Dynamic Virtual Tape           | Hardware Compression and Dynamic Virtual Tape           | HyperFactor™  |



\* One TB equals one trillion bytes. Expansion Array specifications available on separate datasheet.

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