Over 25 years, Overland Storage® has delivered industry leading data protection solutions that optimize backup, recovery, and archive operations. Our award winning designs and patented technologies combined with superior reliability and performance enable IT managers worldwide to successfully protect their valuable data.

Exponential data growth, shrinking backup windows, unreliable backups and the need for fast data recovery combined with new government regulations make data protection a challenge for any IT professional. The Overland REO 4000™ and 9000™ Disk-Based Backup and Recovery Appliances solve these challenges by providing fast, reliable data backup and recovery while reducing operating costs. Easily configured as a virtual tape library, dynamic virtual tape drives, and/or disk volumes (LUNs), the REO can be easily deployed and modified to adapt to changing data protection requirements.

Unlike tape solutions and other disk-based backup systems, only the REO SERIES™ includes REO Protection OS™ software, which embeds data protection intelligence and enables future software enhancements via software PACs. It also provides a core set of volume and device virtualization, management, and connectivity features found only in REO SERIES appliances. When configured as virtual tape, backup data is written sequentially and in large blocks, which results in greater backup performance. In addition, REO SERIES virtual tape appliances are not susceptible to disk fragmentation, viruses, manual volume management, hackers, ongoing tuning, or file system overhead - all are common problems found with general purpose disk-based backup systems.

And only REO SERIES includes patent-pending Dynamic Virtual Tape™ (DVT) technology, which ensures that no storage capacity is wasted while eliminating the manual effort and guesswork of sizing, configuring, provisioning, and deleting virtual tape cartridges. With DVT, users can create virtual tape cartridges that automatically expand or shrink to match the exact capacity requirements of the backup operation.

REO 4000 and 9000 appliances are compatible with all popular open systems and Windows-based backup software, physical tape drives and libraries and easily connect to existing Ethernet (iSCSI) and Fibre Channel networks for seamless integration without changes to existing backup processes. An intuitive and robust browser-based graphical user interface makes REO easy to configure and manage. Users can proactively monitor REO appliances and receive e-mail alerts for instant notification of status changes.

**REO 4000/9000 Key Benefits:**

- **Flexible Functionality**—easily configured as a virtual tape library, dynamic virtual tape drives, and/or disk volumes (LUNs).
- **Performance**—when configured as virtual tape, data is written sequentially and in large blocks for fast, reliable backup. Utilizes direct access disk technology for nearly instantaneous data recovery.
- **Easy Integration**—compatible with all popular open systems and Windows-based backup software, physical tape drives or libraries and easily connects to Ethernet (iSCSI) and Fibre Channel networks.
- **REO Protection OS**—software embedded in all REO SERIES appliances. Provides data protection intelligence including virtualization, management, and connectivity. Also enables enhanced features via add-on software PACs (e.g. REO Multi-SitePAC).
- **Dynamic Virtual Tape**—virtual tape cartridges are automatically sized to match backup job so no capacity is wasted. Eliminates manual effort and guesswork of sizing, configuring, and provisioning virtual cartridges.
- **Easy to Setup and Manage**—robust web-based interface provides simple step-by-step setup and proactive monitoring. Integrating disk into your backup strategy has never been easier!

**REO Multi-SitePAC™ Software Option:**

Automates the manual process of protecting remote data without requiring changes to existing backup systems or software. Multi-SitePAC seamlessly transfers backup data in virtual tape format from a remote REO to a central REO, where it can be consolidated, managed and archived.
**REO SERIES - Configuration Example:**

- **Disk Volumes (LUNs)**: User definable - up to 64 virtual tape drives and/or disk volumes (LUNs).
- **Virtual Tape Drives**: Dynamic Virtual Tape functionality.
- **Virtual Tape Libraries**: up to 32 virtual drives, up to 180 virtual cartridges, up to four library partitions.
- **Dynamic Virtual Tape Libraries**: Dynamic Virtual Tape functionality.

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### SPECIFICATIONS

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<th>REO 4000</th>
<th>REO 9000</th>
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<tr>
<td><strong>FUNCTIONALITY</strong></td>
<td>User defined: Up to 64 disk volumes (LUNs) and/or virtual tape drives and/or virtual tape library with up to 32 virtual drives, 180 virtual cartridges, four partitions.</td>
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| **CAPACITY**           | (8) 250 GB
2.0 TB
1.50 TB RAID 5
(12/24) 250 GB
3/6 TB
2.5/5 RB RAID 5 | (8) 400 GB
3.2 TB
2.4 TB RAID 5
(12/24) 400 GB
4/8/9.6 TB
4/8 TB RAID 5 |
| **STANDARD SOFTWARE FEATURES** | REO Protection OS software with Dynamic Virtual Tape, disk virtualization, browser-based management, email alerts |          |
| **STANDARD HARDWARE FEATURES** | 19-inch rack-mount enclosure, hot-plug disk drives, redundant hot-plug power supplies, redundant cooling, dual RAID controllers, dual GbE data ports, 1/10/100 management port |          |
| **EXTERNAL INTERFACES** | Hardware Management Expansion |          |
| **ARRAY CONTROLLER**   | Dual RAID controllers |          |
| **RAID SUPPORT**       | JBOD, RAID 0, RAID 5 (shipped with RAID 5 format) |          |
| **POWER REQUIREMENTS** | Voltage: 100 to 120 VAC, 200 to 240 VAC +/-10% 47 to 63 Hz 5A @ 115 VAC, 2.5A @ 230 VAC IEC 60320 C13 connectors
Steady state 203 W; Peak 277 W | Voltage: 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: 3.5 x 17 x 27 inches (8.9 x 43.2 x 68.6 cm)
2U rack-mount
55 lbs. (25.4 kg) | Dimensions: 8.75 x 19.0 x 27.0 inches (22.2 x 48.3 x 68.6 cm)
5U rack units
160 pounds (73 kg) |
| **ENVIRONMENTAL REQUIREMENTS** | Humidity: 20–80% non-condensing
Temperature: 10–40°C
Altitude: -984 to 10,000 feet
Shock: 10 G (11 ms half sine pulse)
Vibration: .25 G swept sine (5–250 Hz)
No errors (5–250–5 Hz) | Humidity: 10–95% non-condensing
Temperature: -40 to 70°C
Altitude: -100 to 12,000 m
Shock: 20 G (11 ms half sine pulse)
Vibration: 1.0 G swept sine (5–250–5 Hz) |
| **AGENCY APPROVALS**   | UL/TUV, NRTL, CE, CUL (Canada), VCCI Class B/CISPR PUB 22 (Japan), TUV GS (Germany), BSMI (Taiwan) |          |
| **INTEROPERABILITY**   | Contact Overland Storage or visit www.overlandstorage.com for the most current iSCSI, Fibre Channel, and backup software compatibility matrices |          |
| **STANDARD WARRANTY**  | Standard warranty includes 3-year hardware XchangeNow® and 90-day software support via telephone, e-mail, and Web. Extended service options available. |          |

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* One TB equals one trillion bytes.