

# REO 1000™

with ProtectionPAC™ software

## COST-EFFECTIVE, DISK-BASED BACKUP AND RECOVERY APPLIANCE

Whether you need a higher capacity, more reliable backup solution, faster file recovery, or a better alternative to 1U or 2U tape autoloaders, the Overland Storage® REO 1000™ with ProtectionPAC™ software is the answer for your data protection needs. From an industry leader with over 23 years in the data protection business, the REO 1000 is a cost-effective, easy-to-use, low-profile disk-based backup and recovery appliance designed to meet the data backup needs of small business or branch office users who require higher data capacity for unattended backups, near-instantaneous file restores needed for rapid file recoveries and increased data protection at a price point that fits within their budget.

The REO 1000 utilizes high-capacity SATA disk drives, Gigabit Ethernet connectivity (iSCSI) and Overland's unique ProtectionPAC software to deliver features such as virtual tape, dynamic virtual tape capacity allocation, data compression (Virtual tape mode), hardware RAID data protection and virtualization.

In addition to high capacity and fast recovery, the 1U REO 1000 delivers capabilities not found in existing 1U and 2U tape autoloaders, stand-alone tape drives or NAS devices. RAID capability provides users with an additional, redundant layer of data protection. The REO 1000 virtualization feature provides users with the flexibility to define multiple volumes of varying sizes needed to accommodate their backup needs. For easy integration into existing storage environments, the REO 1000 delivers virtual tape functionality, allowing users to utilize it in either disk and/or tape image formats. The ability to dynamically size virtual tape drives to the size of individual backup jobs further increases storage efficiency while avoiding tape overruns.



- 1 TB NATIVE STORAGE CAPACITY
- HIGH-SPEED, DIRECT-ACCESS DISK TECHNOLOGY
- 1U, RACK MOUNTABLE FORM FACTOR
- GIGABIT ETHERNET CONNECTIVITY
- DISK IMAGE AND/OR LTO-2 VIRTUAL TAPE
- HARDWARE RAID PROTECTION
- DYNAMIC VIRTUAL TAPE CAPACITY ALLOCATION
- VIRTUALIZED DISK AND TAPE MANAGEMENT

### REO 1000 Features Include:

**High-capacity backup**—utilizing four 250 GB SATA disk drives, the REO 1000 provides up to 1 TB of native backup capacity, nearly 20 percent more capacity than comparably priced 1U and 2U tape autoloaders.

**High-speed recovery**—utilizing direct access disk technology, the REO 1000 recovers business-critical data at near-instantaneous speeds, significantly improving file recovery times.

**Low-profile, rack-mountable form factor**—occupying just 1U of rack space, the REO 1000 minimizes the use of valuable data center real estate.

**Gigabit Ethernet connectivity**—seamlessly integrating into existing 10/100 and Gigabit Ethernet networks, REO 1000 delivers high-speed, low-cost connectivity to servers.

**Hardware RAID data protection**—the REO 1000 offers hardware RAID 5 data protection for storage managers who wish to retain an extra layer of data protection at every stage of their disk-to-disk backup process.

### ProtectionPAC Software:

**Virtual tape**—enables REO 1000 disk storage to be configured as a disk volume, an LTO-2 virtual tape drive or a combination of both. Backing up to virtual LTO-2 tape drives eliminates the limitations of disk-based backup imposed by some backup applications.

**Flexible virtual device support**—provides the ability for each virtual device to be configured as a disk LUN or virtual tape drive, up to 64 total devices, enabling storage managers to implement a solution that most closely matches their current and future data protection requirements.

**Dynamic Virtual Tape**—provides the ability to dynamically size virtual tape drives to the size of individual backup jobs, providing higher usable capacity versus fixed length virtual tape devices.

**Browser based management**—provides proactive monitoring capability, event notification and remote management capability. The REO 1000 allows you to easily manage your backup and recovery process from a location that's convenient for you.

	REO 1000	1U/2U TAPE AUTOLOADERS
Capacity	✓	
Instant File Recovery	✓	
Compact Form Factor	✓	✓
Virtualization	✓	
Virtual Tape	✓	
Hardware RAID	✓	
Dynamic Virtual Tape Capacity Allocation	✓	
Total Cost of Ownership	✓	

## REO 1000 SPECIFICATIONS

<b>CAPACITY*</b> Native Capacity	Four 250 GB SATA disk drives 1 TB (750 GB RAID 5)		
<b>PERFORMANCE</b>	Up to 150 GB/hour		
<b>HOST INTERFACES</b> Hardware Software Storage Protocol	One GbE port (RJ45), One Management Port (RJ45) 16MB REO SoftKey (Standard USB interface) 1 GB Ethernet/iSCSI		
<b>Controller</b>	Single RAID controller		
<b>RAID Level</b>	RAID 5, RAID 0 or JBOD		
<b>LUNs Supported</b>	Any combination of disk volumes and Virtual Tape Drives up to 16 total		
<b>POWER REQUIREMENTS</b> Voltage Frequency Current Power Cord Connector (US) Power Consumption	90 to 120 VAC, 200 to 240 VAC+/-10% 47 to 63 Hz 2.5A @ 115 VAC, 12.5A @ 230 VAC IEC 60320 C13 connector Steady state 180 W; Peak 200 W		
<b>ENCLOSURE</b> Dimensions Weight	17 x 27 x 1.75 inches (43.18 x 68.58 x 4.45 cm) 1U rack-mount 45 lbs. (20.5 kg)		
<b>ENVIRONMENTAL REQUIREMENTS</b> Humidity Temperature Altitude Shock Vibration	<table border="0"> <tr> <td style="vertical-align: top;"> <b>OPERATING</b>                      20–80% non-condensing                      10–40° C                      -984 to 10,000 feet                      -300 to 3,048 m                      10 G (11 ms half sine)                      .25 G swept sine                      (5–250–5 Hz) no errors                 </td> <td style="vertical-align: top;"> <b>NON-OPERATING</b>                      10–95% non-condensing                      -40 to 60° C                      -984 to 30,370 feet                      -300 to 12,000 m                      20 G (11 ms half sine pulse)                      1.0 G swept sine                      (5–250–5 Hz)                 </td> </tr> </table>	<b>OPERATING</b> 20–80% non-condensing 10–40° C -984 to 10,000 feet -300 to 3,048 m 10 G (11 ms half sine) .25 G swept sine (5–250–5 Hz) no errors	<b>NON-OPERATING</b> 10–95% non-condensing -40 to 60° C -984 to 30,370 feet -300 to 12,000 m 20 G (11 ms half sine pulse) 1.0 G swept sine (5–250–5 Hz)
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<b>AGENCY APPROVALS</b>	UL/TUV, NRTL, CE, CUL (Canada), VCCI Class B/CISPR PUB 22 (Japan), TUV GS (Germany), BSMI (Taiwan)		
<b>INTEROPERABILITY</b>	Contact Overland Storage or visit <a href="http://www.overlandstorage.com">www.overlandstorage.com</a> for the most current iSCSI, Fibre Channel, and backup software compatibility matrices		

\* One TB equals one trillion bytes.

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