

OVERLAND STORAGE NEO SERIES™ 2000

Non-stop operation in a cost-effective tape library.



NON-STOP OPERATION

The Neo 2000 tape library's Distributed Robotic Architecture sets the new standard for high availability in tape automation by which all other libraries will be compared. Incorporating the third generation of Overland's expandable, modular robotics, the Neo features LiveSwap™ tape drives, remote fail-over, removable power supply and redundant robotics.

PERFORMANCE AND CAPACITY

Each module has 26 DLT, 26 SuperDLT or 30 LTO Ultrium slots and up to two drives. This gives you as much as 96 TB capacity and up to 3,456 GB/hour performance in an eight-module library that can operate as a single library. Drive technologies supported include DLT8000, SDLT 220, SDLT 320 and HP LTO Ultrium Generation 1 (LTO-1) and Generation 2 (LTO-2).

FLEXIBLE CONNECTIVITY

Connectivity functions are provided by the Virtual Interface Architecture (V.I.A.) card bays. Any Neo Series V.I.A. card can be installed in these two card bays. Currently there are three V.I.A. card types: 1 and 2 Gbit/sec Fibre Channel – loop or fabric – (FCO), HVD SCSI (HVO) and the Library Partitioning Option (LPO). These functions can be intermixed in one library or one entire multi-module library can be converted using one card subject to bandwidth considerations. Future cards will support IP based storage environments.

- **SDLT / LTO / DLT**
- **1 x 26 to 16 x 240**
- **2 TB to 96 TB**

EASY TO USE AND SERVICE

All operator controls are accessible through a touchscreen, graphical user interface. Web TLC®; a remote library management tool embedded in the Neo, enables the use of a standard browser to view the library and all its functions—including firmware downloads, problem diagnosis, remote fail-over and configuration changes—over the Internet or over a local net. Drives, power supplies, controllers and interface cards are all easily removed by the user with no special tools required.

REMOTE FAIL-OVER

A significant benefit of the Neo series design is the capability to remotely transfer control from the Master module to the Secondary Master. This fail-over can be done either through the front panel or through a standard browser using the Internet and, either way, is accomplished without moving any cables. In this manner, the library can be restarted even when one module is powered off or removed. In many cases, the backup job can be restarted using the remaining modules.

All capacities and transfer rates assume a 2:1 data compression ratio.



- *Available in increments as small as 2 TB*
- *Ideal for the department or work group*
- *LiveSwap™ tape drives, power supplies, controllers and robotics for non-stop operation*
- *Optional Fibre Channel interface and serverless backup reduce server workload*
- *Web TLC provides remote web-based library monitoring, control and fail-over management*
- *Interactive touch screen display provides intuitive way to view cartridge map, configuration and current status*
- *Convenient 26 or 30 slot modules provide economical starting point and the ability to expand when necessary*

COMPATIBILITY TO KEEP YOU CONNECTED

- Supports all major operating systems including HP-UX, IBM AIX, Linux, Mac OS, Novell NetWare, SCO UNIX, Sun Solaris, Tru64 UNIX, Windows NT/2000 and more.
- Seamless compatibility with all leading tape application software.

SERVICE YOU CAN COUNT ON

- Neo 3 year XchangeNOW® warranty includes on-site maintenance during the first year in most areas of North America.
- On-site service is available in most areas (please ask for details).

PROTECTING YOUR STORAGE INVESTMENT

- Over 20 years of experience in data protection and tape storage solutions.
- Engineering excellence with award-winning library robotics design.
- Offers fully open storage management solutions.
- Overland meets the needs of IT professionals in industries worldwide.

Neo Series™ 2000



DRIVES AND MEDIA					
Drive type	DLT 8000	SDLT 220	SDLT 320	LTO-1	LTO-2
Media type	DLT IV	Super DLT Tape 1	Super DLT Tape 1	Ultrium 1	Ultrium 2
SYSTEM CONFIGURATION					
Magazine capacity (slots)	13	13	13	15	15
Magazines per module	2	2	2	2	2
Number of slots per module	26	26	26	30	30
Mail slots per module	1	1	1	1	1
Number of modules per library*	1 to 8	1 to 8	1 to 8	1 to 8	1 to 8
Number of drives per module	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2
Maximum drives per library	16	16	16	16	16
Maximum slots per library	208	208	208	240	240
CAPACITY					
Native module capacity (TB)	1.0	2.8	4.2	3.0	6.0
Compressed module capacity** (TB)	2.0	5.7	8.3	6.0	12.0
Native library capacity – 8 modules (TB)	8.3	22.8	33.3	24	48.0
Compressed library capacity** – 8 modules (TB)	Up to 16.6	Up to 45.7	Up to 66	Up to 48	Up to 96.0
PERFORMANCE					
Native transfer rate (1 module, 1 drive) (GB/hr.)	21.6	39.6	57.6	54	108
Compressed transfer rate (1 module, 1 drive) (GB/hr.)	43.2	79.2	115.2	108	216
Native transfer rate (8 modules, 16 drives) (GB/hr.)	345.6	633.6	922	864	1,728
Compressed transfer rate (8 modules, 16 drives)** (GB/hr.)	691.2	1,260	1,840	1,728	3,456
RELIABILITY					
Robotics MSBF (exchanges)	>2,000,000	>2,000,000	>2,000,000	>2,000,000	>2,000,000
Drive MTBF	250,000 hrs.	250,000 hrs.	250,000 hrs.	250,000 hrs.	250,000 hrs.
CONNECTIVITY					
Robotics and drive interface	LVD SCSI (VHDCI). HVD SCSI, Fibre Channel and Library Partitioning optional.***				
Web TLC interface	10 Base T; browser ready with SNMP event notification				
OPTIONAL FIBRE CHANNEL SPECIFICATIONS					
-Media supported	Short wave or long wave using pluggable SFP transceivers				
-Extended copy commands	Supports up to 9 concurrent copy streams				
-Remote management port	Ethernet 10/100 BaseT				
-Sustained data rate	98 MB/sec (1 Gbit FC), 150 MB/sec (2 Gbit FC)				
-Environment	Fabric, private or public				
-SNMP traps for faults	Standard with the Fibre Channel option				
PHYSICAL DIMENSIONS					
Single module, rackmount (HxWxD)	8.75 x 16.7 x 31.9 inches (22.2 x 42.4 x 81 cm)				
Single module weight	66 lb (30 kg)				
POWER REQUIREMENTS					
Voltage	100 to 240 VAC				
Frequency	50 to 60 Hz				
Power	175 Watts Typical (w / 2 drives)				
AGENCY APPROVALS					
Agencies	UL, UL-Canada, TUV PS, CE Mark, FCC and VCCI				

* Library may be configured with a combination of Neo Series 2000 and Neo Series 4000 modules, not to exceed 16 drives and 240 slots.

**Assumes compression ratio of 2:1. Actual performance may vary with the application.

***Single-ended SCSI interface is not supported.

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