NEO S-Series Family

Automated tape libraries offer effortless backup and archive capabilities

In a world where the amount of corporate data generated doubles every 18 months and companies are legally bound to store the data long-term, IT managers are forced with the challenge of how to backup and archive data more efficiently and more affordably. Enter Overland Storage – where we recognize the need for your business to do more with less, and help address your small-to-medium sized business storage needs with the NEOs family of tape library solutions. Designed for IT offices with limited space, limited resources and limited budgets, the NEOs family delivers the ultimate in simple, affordable, reliable backup, archive and disaster recovery.

Features

Remote Management
- Manage your NEOs library from anywhere – all you need is a web browser and a network connection
- The simple, intuitive interface makes administration easy
- Set alerts for backup and archive events

Upgradeable Tape Drives
- Eliminates costly down time
- Provides increased performance and efficiency
- Enables cost-effective upgrades to next generation technology
- Allows tape drive technology interchange

Removable Cartridge Magazines
- Secure, convenient media handling
- Effortless off-site transportation of cartridges for disaster recovery planning
- Reduces administrative costs

Encryption
- Encryption-enabled for increased data security
- FIPS 140-2 approved
- Easily integrates with data center ISV applications

In a study conducted by the University of California Santa Cruz, it was determined that 90% of data stored on disk was never accessed again and that another 6.5% of the data was only accessed once. Because disk is an expensive place to store massive amounts of infrequently accessed data, best practices recommend archiving data off to tape, usually within a 30 day period after the data has been created. Moving the data to a NEO S-Series library reduces backup storage requirements, reduces costs, improves use of valuable floor space, improves energy efficiency, provides a higher level of data security and improves performance of networks and disk-based backup systems. NEO S-Series tape libraries provide the capacities, features and efficiencies needed for archived data.

Simple
Managing backups and archives can be a complex and costly activity. That's why NEOs is focused on providing a simple solution that reduces your administrative costs for backup and archive. Web-based remote management provides easy and convenient administration of the data archive process from anywhere in the world. Removable cartridge magazines enable easy access to data, reduce media handling costs and facilitate offline storage of your data for disaster recovery purposes. Standard barcode readers reduce media inventory times and simplify media management. Mail slots deliver easy, secure access to individual tape cartridges without interrupting library operations. NEOs tape drives are easily added, removed or replaced, providing the flexibility to adapt to changing data storage requirements. Combine the NEOs ease-of-use features with its effortless configuration and installation and you will be backing up and archiving data in no time at all.

Affordable
NEOs doesn't just deliver an affordable purchase price – it also provides long-term cost of ownership advantages. NEOs ease-of-use features mean you spend less time managing your backup and archive, reducing your administrative costs. Because NEOs is an extremely reliable platform, service and maintenance costs are reduced and the costs associated with downtime and lost productivity are eliminated. Effortless upgradeability to next-generation technologies protect your investment

long-term while allowing you to increase your storage capacities and transfer rates in order to keep up with the ever-increasing demand to store more and more data. NEOs not only protects your data but also protects your storage budget.

Compact
Available in rack-friendly 1u, 2u and 4u form factors, NEOs packs up to 180TB of data into a single unit of rack height. The ability to store so much data in such a small space minimizes the use of valuable rack space and reduces your overall cost of ownership.

Versatile
Providing up to 720TB of data storage capacity, NEOs tape library solutions are not only designed to meet your data backup and archive needs but to add storage as needed. Available with SAS or Fibre Channel connectivity, NEOs easily integrates into your existing network infrastructure and provides seamless compatibility with 3rd party backup software applications. Utilizing industry-leading LTO tape drives, NEOs combines high-capacity storage with high-performance data transfer rates for increased backup and archive efficiency. Native partitioning capability in NEOs T24 and T48 libraries provides the ability to carve a single physical library into smaller logical libraries and securely use your NEOs library for a variety of different storage applications. NEOs libraries are the perfect solution for today's constantly-changing IT environment.

Specifications

	NEOs StorageLoader	NEOs T24	NEOs T48
Configuration (total #)	cartridge slots: 8 / magazines: 2 / mailslots: 1 / tape drives: 1	cartridge slots: 12-24 / magazines: 1-2 / mailslots: 1 / tape drives: 1-2	cartridge slots: 48 / magazines: 4 / mailslots: 3 / tape drives: 1-4
Tape Drives Supported	LTO-7, LTO-6, LTO-5	LTO-7, LTO-6, LTO-5	LTO-7, LTO-6, LTO-5
Capacity (max)	uncompressed: LTO-7: 48TB, LTO-6: 20TB, LTO-5: 12TB / compressed: LTO-7: 120TB, LTO-6: 50TB, LTO-5: 24TB	uncompressed: LTO-7: 144TB, LTO-6: 60TB, LTO-5: 36TB / compressed: LTO-7: 360TB, LTO-6: 150TB, LTO-5: 72TB	uncompressed: LTO-7: 288TB, LTO-6: 120TB, LTO-5: 72TB / compressed: LTO-7: 720TB, LTO-6: 300TB, LTO-5: 144TB
Transfer Rate (max # drives)	uncompressed: LTO-7: Up to 1TB /hr, LTO-6: Up to 576GB/hr, LTO-5: Up to 504GB/hr / compressed: LTO-7: Up to 2.7TB/hr, LTO-6: Up to 1.4TB/hr, LTO-5: Up to 1TB/hr	uncompressed: LTO-7: Up to 2.2TB/hr, LTO-6: Up to 1.2TB/hr, LTO-5: Up to 1TB/hr / compressed: LTO-7: Up to 5.4TB/hr, LTO-6: Up to 2.9TB/hr, LTO-5: Up to 2TB/hr	uncompressed: LTO-7: Up to 4.2TB/hr, LTO-6: Up to 2.3TB/hr, LTO-5: Up to 2TB/hr / compressed: LTO-7: Up to 10.8TB/hr, LTO-6: Up to 5.8TB/hr, LTO-5: Up to 4TB/hr
Reliability	MSBF (mean swaps between failures): 2,000,000	MSBF (mean swaps between failures): 2,000,000	MSBF (mean swaps between failures): 2,000,000
Host Interface	6Gb SAS, 8Gb FC	6Gb SAS, 8Gb FC	6Gb SAS, 8Gb FC
Connectors	Mini-SAS, LC Optical FC	Mini-SAS, LC optical FC	Mini-SAS, LC optical FC
User Interface	LCD front panel; web-based remote management	LCD front panel; web-based remote management	LCD front panel; web-based remote management
Physical Specifications	Dimensions: 1.73"(h) x 18.98"(w) x 31.85"(d); 1u / 43.94mm x 482.1mm x 808.7mm / Weight: 25.4 lbs (without rackmount) / 11.52 Kg	Dimensions: 3.44"(h) x 17.6"(w) x 29.13"(d); 2u / 87.4mm x 447.0mm x 739.9mm / Weight: 33 lbs (without rackmount) / 14.97 Kg	Dimensions: 6.9"(h) x 17.6"(w) x 29.13"(d); 4u / 175.3mm x 447.0mm x 739.9mm / 47 lbs (without rackmount) / 21.31 Kg
Power	100 - 240 VAC; 50 - 60 Hz; 110 watts (max)	100 - 240 VAC; 50 - 60 Hz; 168 watts (max)	100 - 240 VAC; 50 - 60 Hz; 312 watts (max)
Environmental Requirements	Humidity: 10-80% (operating, non-condensing) / Temperature: 10 °C to 35 °C (operating)	Humidity: 10-80% (operating, non-condensing) / Temperature: 10 °C to 45 °C (operating)	Humidity: 10-80% (operating, non-condensing) / Temperature:10 °C to 45 °C (operating)
Standard Warranty	NEO S-Series products are covered by a one-year Advanced Parts Replacement and 9x5 telephone support. NEOs libraries are eligible for enhanced maintenance options to augment the standard limited warranty. For full details of all of our service programs, please contact your preferred authorized reseller or contact Overland Storage at 1-858-571-5555.	NEO S-Series products are covered by a one-year Advanced Parts Replacement and 9x5 telephone support. NEOs libraries are eligible for enhanced maintenance options to augment the standard limited warranty. For full details of all of our service programs, please contact your preferred authorized reseller or contact Overland Storage at 1-858-571-5555.	NEO S-Series products are covered by a one-year Advanced Parts Replacement and 9x5 telephone support. NEOs libraries are eligible for enhanced maintenance options to augment the standard limited warranty. For full details of all of our service programs, please contact your preferred authorized reseller or contact Overland Storage at 1-858-571-5555.
Upgrade Options	3 years advanced parts replacement / 1 year/ 3 years onsite	3 years advanced parts replacement / 1 year/ 3 years onsite	3 years advanced parts replacement / 1 year/ 3 years onsite
Included in Std. Configuration	Library with (1) tape drive, US & European power cord, Quick Start Guide, rackmount hardware	Library with (1) tape drive, US & European power cord, Quick Start Guide, rackmount hardware	Library with (1) tape drive, US & European power cord, Quick Start Guide, rackmount hardware
Accessories	LTO-7/LTO-6/LTO-5 upgrade tape drives, LTO-6/LTO-5 media, LTO cleaning cartridges,SAS connectivity kit, LTO-6/LTO-5 barcode labels, 8-slot magazines	LTO-7/LTO-6/LTO-5 add-on tape drives, LTO-7/LTO-6/LTO-5 media, LTO cleaning cartridges, SAS connectivity kit, LTO-7/LTO-6/LTO-5 barcode labels,12-slot magazines, 12 slot upgrade kit	LTO-7/LTO-6/LTO-5 add-on tape drives, LTO-7LTO-6/LTO-5 media, LTO cleaning cartridges, SAS connectivity kit, LTO-7/LTO-6/LTO-5 barcode labels, 12-slot magazines, redundant power option

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