FalconStor®
Defining Data Protection, Again.™

Virtual Tape Library (VTL) 300 Series Appliances

BACKUP AND RESTORE WITH DEDUPLICATION

The drive to optimize resources, improve efficiency, and reduce operational cost compels IT departments to leverage legacy backup resources. The FalconStor® Virtual Tape Library (VTL) 300 Series of preconfigured turnkey deduplication appliances enhance legacy backup by accelerating backup operations, improving backup reliability, and simplifying tape management, while optimizing replication for business continuity and eliminating tape transport cost. FalconStor VTL 300 Series appliances offer fast, reliable local backup and restore, remote disaster recovery (DR) protection, and integrated tape operations. This enables mid-sized organizations to manage explosive data growth while reducing the cost of local storage, operations, and disaster recovery.

Highlights

Deduplication
- Integrated deduplication and compression maximize ROI
- Up to 95% data reduction
- Minimizes costs: power, cooling, floor space, IT resources
- Extends local disk retention for fast data recovery

WAN-optimized replication
- Reduces network requirements by 90% or more
- Eliminates tape transport
- Enables tape consolidation at DR site
- FC support for high-performance DR

Best-of-breed tape management
- Bridges disk and tape for physical tape creation
- Policy-based to meet retention and long-term archive requirements

4TB to 18TB usable capacity
- Protects up to 640TB of original data
- RAID protection and integrity checking assures data access
- All-inclusive capacity-based pricing
- Expandable to 32TB

256-bit AES encryption
- Secures data in flight
- Enhances corporate security with tape shredding and encryption

8Gb FC and 1/10GbE iSCSI
- Accelerates data protection operations, reducing the backup window
- Boosts recovery performance

Emulates over 50 tape libraries and 30 tape drive formats
- Seamless integration, no backup or process changes
- Dynamic resource allocation: 128 virtual libraries, 1,024 virtual drives, 65,536 virtual tapes

Mixed environments
- Enhances deduplication efficiency
- Open systems (Microsoft Windows, UNIX, Linux, NetWare, Mac)
- IBM System i (iSeries), NDMP, mainframe

Symantec OpenStorage (OST) integration
- Transparent data replication
- Copy-to-tape
- Catalog consistency

Specifications: FalconStor VTL 300 Series Appliances & Expansion Units

	SA304	SA307	SA311	SA318	XM012C	XM024C	XM03CR	XM07CR	XM14CR	XM311R	XM322R
Physical Characteristics											
Appliance type	Storage				Expansion unit						
Form factor	2U	5U	5U	5U	3U						
Hot-plug hard drives	6	21	21	21	15						
RAID level	6				6						
Disk type	SATA				SATA						
Repository capacity: usable	4TB	7.5 TB	11TB	18TB	—	—	3.5 TB (software upgrade to 7TB)	7TB	14TB	11TB	22.8 TB
Logical storage capacity (based on a 20:1 deduplication ratio)	80TB	150TB	220TB	360TB	-—	—	70TB to 140TB	140TB	280TB	220TB	456TB
Repository scalability	To 32TB; add up to 28TB w/ expansion arrays	To 32TB; software upgrade to 11TB, no added hardware., add up to 25TB w/ expansion arrays	To 32TB; add up to 21TB w/ expansion arrays	To 32TB; add up to 14TB w/ expansion arrays	—						
Sustained ingest performance (MB/sec)	150	500	500	500	—						
Power supply	Redundant hot-plug auto-switching 870W				Redundant hot-plug auto-switching (550W)						
Dimensions: head (HxWxL)	3.4 x 17.44 x 26.8" (8.64 x 44.31 x 68.07 cm)				—						
Dimensions: storage array (HxWxL)	—	5.16 x 17.57 x 18.9" (13.11 x 44.63 x 48.01 cm)		Two 5.16 x 7.57 x 18.9" (13.11 x 44.63 x 48.01 cm)	5.16 x 17.57 x 18.9" (13.11 x 44.63 x 48.01 cm)						
Weight	57.54 lb (26.09 kg)	135.54 lb (61.48 kg)	135.54 lb	213.54 lb (96.86 kg)	78 lb (35.37 kg)						
Environmental Requirements											
BTU	2972 (high output), 1944 (Energy smart)		1430		1430						
Temperature	Operating: 50° to 95°F (10° to 35°C) Storage: -40° to 149°F (-40° to 65°C)										
Relative humidity	Operating: 20% to 80% (noncondensing) with maximum gradation of 10% per hour										
Altitude	-50 to 10,000 feet (-16 to 3048 meters)										
Host Connections											
iSCSI support - 1 Gb/sec	4 ports				—						
iSCSI support - 10 Gb/sec	Optional				—						
FC support	Included				—						
8Gb FC ports	2 ports				—						
Symantec OST (FC)	Included				—						
Host expansion port interface cards: 4 x 1 GbE ports; 2 x 8 Gb/sec FC ports; 1 x 10 GbE port	1 expansion slot				—						
Capabilities											
Features included with storage appliances: Email alerts, hosted backup, import/export, NDMP backup, replication with encryption/compression, Secure Tape, Symantec OST (FC), tape caching, tape duplication, tape shredding, tape stacking					**Features included with expansion units:** Repository expansion license key, cables, Quick Start Guide						
VTLs/drives/cartridges	128/1024/65536				—						
ACSLS shared library	Optional				—						
IBM System i, IBM 3494 shared library support	Optional				—						