Virtual Tape Library (VTL) 100 Series Appliances

LOCAL BACKUP AND RESTORE WITH DEDUPLICATION

The FalconStor® Virtual Tape Library (VTL) 100 Series preconfigured turnkey deduplication appliance provides IT organizations with fast, reliable local backup and restore, remote disaster recovery (DR) protection, and integrated tape operations. Using advanced deduplication technology, the FalconStor VTL 100 Series provides local disk backup and restore, optimizing disk capacity while automatically replicating to a centralized data center or recovery site for remote tape operations and long-term data retention. Bundled replication functionality transfers only unique data, reducing WAN bandwidth requirements by 90% or more, eliminating the need for physical tape transport at the remote or branch office. The FalconStor VTL 100 Series appliance enables remote and branch office (ROBO) environments 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

1TB to 4TB usable capacity
- Protects up to 80TB of original data
- RAID protection and integrity checking assures data access
- All-inclusive capacity-based pricing

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 change
- 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 100 Series Appliances

	VTL RA101	VTL SA101	VTL SA102
Physical Characteristics			
Form factor	Tower	2U	2U
Appliance type	Storage	Storage	Storage
Hot-plug hard drives	4	4	6
Raid level	5	5	6
Disk type	SATA	SATA	SATA
Repository capacity: usable	1TB	1TB	2TB
Logical storage capacity (based on a 20:1 deduplication ratio)	20TB	20TB	40TB
Repository scalability	—	—	Scalable to 4TB with a software key upgrade, no additional hardware required
Sustained ingest performance (MB/sec)	100	100	150
Power supply	Single power supply 375W	Redundant hot-plug auto-switching 870W	
Dimensions: head (HxWxL)	17.3 x 8.6 x 20.5" (43.9 x 21.8 x 52.1 cm)	3.4 x 17.44 x 26.8" (8.64 x 44.31 x 68.07 cm)	3.4 x 17.44 x 26.8" (8.64 x 44.31 x 68.07 cm)
Dimensions: storage array (HxWxL)	—	—	—
Weight	62.61 lb (28.4 kg)	57.54 lb (21.1 kg)	57.54 lb (21.1 kg)
Host Connections			
iSCSI support - 1 Gb/sec	1 port	4 ports	4 ports
iSCSI support - 10 Gb/sec	Optional	Optional	Optional
FC support	Included	Included	Included
8 Gb FC ports	Optional	Optional	2 ports
Symantec OST (FC)	Included	Included	Included
Host expansion port interface cards: 4 x 1GbE ports; 2 x 8Gb/sec FC ports; 1 x 10GbE port	2 expansion slots	4 expansion slots	3 expansion slots
Capabilities			
VTLs/drives/cartridges	128/1,024/65,536	128/1,024/65,536	128/1,024/65,536
Deduplication	Included	Included	Included
NDMP backup	Included	Included	Included
Hosted backup	Included	Included	Included
Replication with encryption/compression	Included	Included	Included
Tape caching	Included	Included	Included
Secure tape	Included	Included	Included
Tape duplication	Included	Included	Included
Tape stacking	Included	Included	Included
ACSLS shared library support	Optional	Optional	Optional
IBM System i support	Optional	Optional	Optional
IBM 3494 shared library support	Optional	Optional	Optional
Environmental Requirements			
BTU	1672 BTU/hr max	2969 (high output) 1944 (Energy-smart)	2970 (high output) 1944 (Energy-smart)
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)		