Virtual Tape Library (VTL) Storage Appliances

MANAGE EXPLOSIVE DATA GROWTH WHILE REDUCING THE COST OF LOCAL STORAGE, OPERATIONS, & DISASTER RECOVERY

The FalconStor® Virtual Tape Library (VTL) is a preconfigured turnkey scalable deduplication appliance that offers fast, reliable local backup and restore for enterprises, along with remote disaster recovery (DR) protection. This provides critical advantages such as data assurance, seamless tape integration, and simplified management. FalconStor VTL appliances enhance legacy tape backup with disk-based backup and integrated deduplication, reducing capacity requirements, minimizing operational costs, and allowing organizations to retain more data online longer. With features such as WAN-optimized replication and physical tape support, this solution helps organizations meet stringent service-level agreements (SLA) while enabling data growth management, business continuity, and cost containment.

Highlights

Global deduplication maximizes ROI
- Up to 95% data reduction
- Minimizes costs: Power, cooling, floor space, IT resources, etc.
- Extends local disk retention for fast data recovery
- Flexible policies: Inline, post-process, concurrent, or no deduplication

WAN-optimized replication
- Shrinks network requirements by 90% or more
- Eliminates tape transport
- Enables tape consolidation at disaster recovery site
- Supports Fibre Channel (FC) for high-performance disaster recovery
- Optimized multi-threaded architecture for increased scalability and resilience
- Automated remote tape export

12TB to 192TB usable capacity
- Protects up to 3.84PB of original data*
- RAID protection and hot spares with integrity checks assures data access
- Easily deployable storage expansion upgrades
- All-inclusive capacity-based pricing

8Gb FC & 1/10GbE iSCSI
- Accelerates data protection operations, reducing the backup window
- Boosts recovery performance without backup or process changes

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

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

Emulates over 50 tape libraries & 30 tape drive formats
- Seamless integration, no backup or process changes
- Dynamic resource allocation: 128 virtual libraries, 1,024 virtual drives, 250,000 virtual tapes

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

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

Learn more about FalconStor VTL

www.falconstor.com/vtl

	VTLSAP16	VTLSAM16	XM612	MM128
Physical Characteristics				
Appliance type	Storage		Storage expansion	Memory expansion (for VTLSAP16 only)
Form factor	2U		2U	16G RDIMM x 8
Hot-plug hard drives	14 = 2 OS + 12 data		12	—
RAID level	1 = OS & 6 = data		6	—
Disk type	NL SAS		NL SAS	—
Repository capacity: usable	12TB		12TB	—
Logical storage capacity*	240TB		240TB	—
Repository scalability: 12TB base, expandable w/ 12TB trays	Up to 64TB; add 180TB w/ 15 x 12TB expansion arrays (total 192TB) & 2 x 128G (XM228) memory expansions	Up to 192TB; add 180TB w/ 15 x 12TB expansion arrays (no memory expansion required)	—	—
Sustained ingest speed*	1.6GB/s (Note: Over 1.4GB/s requires an additional FC host bus adapter [HBA])		—	—
Power supply	Redundant hot-plug auto-switching 1100W		Redundant hot-plug auto-switching 600W	—
Dimensions (HxWxL)	3.4 x 17.44 x 26.8 in (8.64 x 44.31 x 68.07 cm)		3.4 x 17.44 x 26.8 in (8.64 x 44.31 x 68.07 cm)	—
Weight	71.5 lb (32.5 kg)		62.6 lbs (28.39 kg)	—
Host Connections				
iSCSI support - 1Gb/s	4 ports		—	—
iSCSI support - 10Gb/s	Optional		—	—
FC support	Included		—	—
8Gb FC ports	2 ports		—	—
Symantec OST (FC)	Included		—	—
Host expansion port interface cards: 3 x 8 Gb/s FC ports; 1 x 10 GbE port	3 half-height expansion slots		—	—
Advanced Features				
VTLs/drives/cartridges	128/1,024/250,000		—	—
ACSLS shared library	Optional		—	—
IBM System i (iSeries), IBM 3494	Optional		—	—
Additional features	Email alerts, hosted backup, import/export, NDMP backup, WAN-optimized replication w/ encryption & compression, Secure Tape, tape caching, tape duplication, tape shredding, tape stacking		—	—
Environmental Requirements				
Voltage	90-264 VAC, autoranging, 47-63 Hz		90-264 VAC, autoranging, 47-63 Hz	—
BTU/hr	2,891		1,181	—
Temperature	Operating: 50º to 95ºF (10º to 35ºC) Storage: -40º to 149ºF (-40º to 65ºC)			—
Relative humidity	Operating: 20% to 80% (noncondensing) with maximum gradation of 10% per hour			—
Altitude	-50 to 10,000 feet (-16 to 3,048 meters)			—

All capacity and performance numbers are based on a 20:1 deduplication ratio.