PRODUCT SPECS
OPTIMIZED BACKUP & DEDUPLICATION

OPTIMIZED BACKUP & DEDUPLICATION STORAGE APPLIANCE

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

The FalconStor® Optimized Backup and Deduplication solution replaces or enhances tape backup with disk-based backup and integrated deduplication. By combining interfaces for NAS and VTL while increasing performance, it can reduce capacity requirements, minimize costs, allow you to retain more data online longer while securing data at rest, in flight, and from unwanted user access. Available as scalable, preconfigured turnkey appliances, the FalconStor Optimized Backup and Deduplication solution offers fast, reliable local backup and restore, as well as remote disaster recovery (DR) for data assurance. With features such as simplified, centralized management, WAN-optimized cascaded replication, and seamless tape integration, these appliances help you to meet stringent service-level agreements (SLA) while enabling data growth management and cost containment.

HIGHLIGHTS

GLOBAL DEDUPLICATION
- Up to 95% data reduction
- Minimizes costs: power, cooling, floor space, IT resources
- Extends local disk retention for fast data recovery
- Flexible policies: Inline, post-process, concurrent, or no deduplication

WAN-OPTIMIZED CASCADED REPLICATION
- Simultaneous & parallel cascaded replication maximizes data availability
- Shrinks network requirements by up to 95%
- Eliminates tape transport
- Enables tape consolidation at disaster recovery (DR) site
- Supports Fibre Channel (FC) for high-performance DR
- Optimized multi-threaded architecture for increased scalability & resilience

BEST-OF-BREED TAPE MANAGEMENT
- Bridges disk & tape for physical tape creation
- Policy-based to meet retention & archive requirements

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 IP
- Accelerates data protection operations, reducing backup windows
- Boosts recovery performance without backup or process changes

INTEGRATED SECURITY
- Control how long a user account stays active
- Prevent unwanted access with password lockouts
- Require complex passwords for the highest level of security

256-BIT AES ENCRYPTION
- Secures data in flight and at rest*
- Enances corporate security through tape encryption & 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)
- Single deduplication repository supports any combination of backups, archives, database dumps, virtual environments
- IBM System i (iSeries), NDMP

SYMANTEC OPENSTORAGE (OST) INTEGRATION
- Direct to tape for NAS & virtual tape
- Transparent data replication
- Copy-to-tape
- Catalog consistency
- Optimized Symantec OST APIs

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PHYSICAL CHARACTERISTICS	VTLSAP16	VTLSAM16	XM612	MM128
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*	10TB/hr (Note: Over 5TB/hr requires an additional FC host bus adapter [HBA])		—	
Power supply	Redundant hot-plug auto-switching 1100W		Redundant hot-plug auto-switching 600W	—
Dimensions (H x W x L)	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

Ethernet support - 1Gb/s	4 ports		—	—
Ethernet support - 10Gb/s	2 ports		—	—
FC support	Included		—	—
8Gb FC ports	2 ports		—	—
Symantec OST (FC, IP)	Included		—	—
Available host expansion port interface cards: dual ports 8Gb/s FC HBA & dual ports 10Gb/s NIC	2 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, 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: 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 3,048 meters)			

*Please contact FalconStor before enabling encryption at rest technology. All capacity and performance numbers are based on a 20:1 deduplication ratio.