



FREESTOR® HARDWARE SOLUTIONS

MIGRATE, RECOVER, PROTECT, AND DEDUPLICATE DATA - ON OR OFF THE CLOUD - WITHOUT THE NEED FOR SPECIFIC HARDWARE, NETWORKS, OR PROTOCOLS

FalconStor solutions give customers the power to seamlessly migrate, recover, protect, and deduplicate data—on or off the cloud—without tying their business to specific hardware, networks, or protocols. Our open, horizontal, and agnostic software solutions reduce vendor lock-in and give organizations the freedom to choose or leverage the right storage infrastructure to match their business, operations, and budget – now, and as they grow into the future. FreeStor® leverages our Intelligent Abstraction® core to virtualize almost any underlying storage platform into a unified storage resource pool. This enables users to deploy common data services seamlessly across that storage pool to deliver truly unified capabilities across their environment. Whether you are an Enterprise, MSP, or CSP, FreeStor enables you to match the right storage for the right price with the right capabilities and data services for your business. It's time to set your storage infrastructure free!



PRODUCT SPECS FREESTOR HARDWARE SOLUTIONS

HIGHLIGHTS

NEXT GENERATION INTELLIGENT ABSTRACTION CORE

- Unified data services deliver software-defined storage across almost any storage infrastructure

UNIFIED CENTRAL MANAGEMENT

- Graphical management, monitoring and reporting from core-to-edge via a single pane-of-glass
- Collection and consolidation of client statistics
- Install, update, and configure clients via industry standard open-source solution – Puppet

NEW HTML - BASED GUI

- Browser-based, accessible from computer, tablet, or smartphone

CONTINUOUS AVAILABILITY

- Active/Active IO Cluster and IO Multi-Cluster with (4-way) for local, metro, and stretched clusters

OPTIMIZED PERFORMANCE

- Over 1 Million IOPS per IO Cluster achievable when using SSD storage
- Reduced latency (embedded, gateway, cluster)

DATA MIGRATION

- Policy-based migration to move data across storage platforms, tiers, sites, and even to cloud regardless of underlying hardware

WAN - OPTIMIZED REPLICATION

- Via patented MicroScan™ technology
- Reduces bandwidth requirements by up to 95%
- Enables rapid recovery

INLINE DEDUPLICATION

- Inline block-based deduplication on ingest
- Up to 10:1 deduplication¹

SECURE MULTI-TENANCY

- Centralized authentication with Active Directory and LDAP
- End-to-end isolation of tenant data

MIRROR VOLUMES, UP TO 1,000 SNAPSHOTS²

- Enables highly granular recovery points
- Data assurance & business continuity

THIN PROVISIONING

- Enables efficient management of existing capacity
- Simplifies administration
- Increases utilization of disk capacity
- Reduces capital expenditures

¹ Performance may vary due to data types, and number of copies in customer's environment.

² Snapshot agents are available for a variety of environments and file systems. Refer to the FalconStor Certification Matrix on our website for currently supported applications and databases.



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PHYSICAL CHARACTERISTICS	FMSG 7 0 0	FDRGA 7 0 0	FSSGA 7 0 0
Form factor	2U rackmount		
Processor	2 x Intel Xeon E5-26xx, 8-Core CPUs		2 x Intel Xeon E5-26xx, 18-Core CPUs
Memory	64GB (4 x 16GB RDIMM, 2133 MHz)	128GB (8 x 16GB RDIMM, 2133 MHz)	48GB (6 x 8GB RDIMM, 2133 MHz)
Power supply	2 x hot-plug high output 750W		
Power source	90-264 VAC, auto-ranging, 47-63 Hz		
Dimensions (HxWxL)	3.44 x 18.98 x 29.75 in (8.73 x 48.2 x 75.58 cm)		
Weight (maximum configured)	69.45 lb (31.5 kg)		
HOST CONNECTIONS			
1GbE ports	8 ports	4 ports	4 ports
10GbE iSCSI ports	-	-	2 ports
10GbE optional ports	-	-	1 for IO Cluster, 1 for NVRAM
FC ports	-	4 x 16Gb ports	4 x 16Gb ports
PERFORMANCE			
Performance IOPS (using 8 FC ports)	-	-	650,000 IOPS per standalone node, over 1 Million IOPS per cluster
Latency	-	-	0.316 ms max per standalone node, 0.329 ms max per cluster
Inline Deduplication (with 1,000 virtual machines and 100% random data with a 20:80 read/write ratio)	-	Up to 120,000 IOPS per cluster using the NVRAM	-
Total supported FSS/FDR nodes per FMS	128	-	-
ENVIRONMENTAL REQUIREMENTS			
Heat output	2,891 BTU/hr		
Temperature	50° to 95°F (10° to 35°C)		
Relative humidity	10% to 80% relative humidity with 29°C (82.4°F) maximum dew point		
Altitude	-50 to 10,000 ft (-16 to 3,048 m)		

FREESTOR ADVANTAGES				
DATA SERVICES	MIGRATION	CONTINUITY	RECOVERY	OPTIMIZATION
Unified GUI	✓	✓	✓	✓
REST API	✓	✓	✓	✓
Virtualization	✓	✓	✓	✓
Clustering (Active/Active)	✓	✓		✓
Automated Recovery		✓	✓	✓
Snapshots			✓	
Deduplication		✓		✓
Replication	✓	✓	✓	✓
WAN Optimization	✓		✓	

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