

Network Storage Server (NSS) VS Series HA Appliances

HIGH-PERFORMANCE, HIGH-AVAILABILITY STORAGE VIRTUALIZATION FOR BUSINESS CONTINUITY

Enterprises and midmarket organizations must ensure data availability or risk the loss of business transactions, revenue, and customers. FalconStor® Network Storage Server (NSS) VS Series High Availability (HA) Appliances protect critical business applications by providing storage virtualization enhanced with scalability, load balancing, network interoperability, and high performance. These features let you allocate storage volumes as needed without interrupting business operations. To address the challenges of explosive data growth, these appliances enable thin provisioning, mirroring, performance tiering, and data migration, maximizing storage efficiencies and minimizing storage overhead. Additional advanced features include application-consistent snapshots, WAN-optimized replication, and automated disaster recovery (DR) for fast, efficient data protection in even the most complex, demanding, heterogeneous IT environments.



Highlights

All-inclusive functionality

- Mirroring, snapshots, journaling, remote replication
- Simple, capacity-based pricing
- HA architecture with active/active controllers
- Scales to 500TB+ to support large enterprises
- Expansion units for additional scalability

Heterogeneous support

- iSCSI, Fibre Channel (FC), and FCoE connectivity
- Physical or virtual servers
- Microsoft Windows, Linux, Unix, Solaris, HP-UX

Mirror volumes, up to 1,000 snapshots*

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

WAN-optimized replication via MicroScan™ technology

- Reduces bandwidth requirements & costs by up to 95%
- Enables rapid disaster recovery

Automated disaster recovery via RecoverTrac™ tool

- Automates complex application recovery and disaster recovery testing
- Supports P2P, P2V, and V2V recovery

Data tiering

- Populates data on appropriate disk volumes: Nearline SAS, SAS, Fibre Channel (FC), solid-state disk (SSD)

Data migration

- Easily moves data volumes between tiers or SANs

Thin provisioning

- Increases utilization of disk capacity
- Simplifies administration
- Reduces capital expenditures (CapEx)

Optimized I/O performance

- Accelerates storage performance for mission-critical applications
- Alternate-READ mirror volumes eliminate I/O bottlenecks
- HotZone® and SafeCache™ technologies improve READ/WRITE performance

VMware integration

- Certified for VMware vCenter Site Recovery Manager 5
- Supports VMware VAAI

Microsoft Stretch Cluster support

- Certified for Microsoft GeoCluster operation

NOTE: The FalconStor NSS VS Series HA Appliance solution requires at least one RAID expansion head. For more information, please refer to the document entitled: "Expansion Units for FalconStor CDP and FalconStor NSS."

*Snapshot agents are available for the following environments: Microsoft Exchange Server, Microsoft SQL Server, Microsoft VSS, IBM DB2, IBM Informix, Lotus Notes/Domino, Oracle, Sybase, MySQL, SAP, MaxDB, and VSS, as well as file systems (Linux, HP-UX, Solaris, AIX, Microsoft Windows).

Specifications: FalconStor NSS VS Series HA Appliances

	NSSVS630	NSSVS700
Physical Characteristics		
Form factor	2U rackmount	
Host interface	iSCSI	FC/iSCSI
Processor	1 x Intel Xeon E5-2620, 6-Cores @ 2.0 GHz, 15M cache	2 x Intel Xeon E5-2620, 6-Cores @ 2.0 GHz, 15M cache
Memory	24GB (6 x 4GB RDIMM, 1333 MHz, Low Volt, Dual Rank, x8)	
NICs	8 x 1Gb/s Ethernet	4 x 1Gb/s, 2 x 10Gb/s Ethernet
Expansion options	1 external RAID expansion head	1-2 external RAID expansion heads
Power supply	2 x hot-plug high output 750W	
Power source	90-264 VAC, autoranging, 47-63 Hz	
Dimensions (HxWxL)	3.4 x 17.44 x 26.8 in (8.6 x 44.31 x 68.07 cm)	
Weight (maximum configured)	71.5 lb (32.5 kg)	
Host Connections		
iSCSI - 1Gb/s	8 ports	4 ports
iSCSI - 10Gb/s	Optional	2 ports
8Gb FC	Optional	4 ports
Advanced Features		
High availability (HA)	Optional	
Application-aware snapshot agents*	Optional	
Snapshots (TimeMark®/TimeView®) per LUN	Up to 1,000	
Application Snapshot Director for VMware	Included	
Storage Replication Adapter for VMware Site Recovery Manager	Included	
DynaPath® for Microsoft Windows or Linux native multipathing	Included	
Recovery agent	Included	
Automated disaster recovery via RecoverTrac tool	Included	
Multisite Cluster Adapter for Microsoft Windows	Included	
SafeCache/HotZone	Included	
Data journaling	Included	
Thin provisioning	Included	
Synchronous & asynchronous data mirroring	Included	
WAN-optimized replication w/ compression & encryption	Included	
SNMP integration	Included	
Email alerts	Included	
Reporting	Included	
Central Client Manager (CCM)	Included	
HyperTrac™ Backup Accelerator	Optional	
Environmental Requirements		
Heat output	2,891 BTU/hr	
Temperature	50° to 95°F (10° to 35°C)	
Relative humidity	20% to 80% noncondensing with maximum gradation of 10% per hour	
Altitude	-50 to 10,000 ft (-16 to 3,048 m)	

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