ThinkSystem DB720S FC SAN Switch

Maximize performance, simplify tasks

Overview

With the growing adoption of flash and the ramp-up of NVMe flash-based storage, enterprises are moving ever-increasing amounts of data through storage area networks (SAN), forcing an increase in I/O capacity to keep up with escalating demand. Coupled with rising complexity and higher expectations for availability, organizations need a SAN capable of maximizing performance while simplifying and automating management.

To meet these requirements, the storage network needs to evolve. A Lenovo Gen 7 Fibre Channel infrastructure, based on Brocade® technology, enables the full performance of NVMe workloads with reduced latency and increased bandwidth. Also, Lenovo's Gen 7 network lays the foundation for an autonomous SAN by combining powerful analytics and advanced automation capabilities to maximize performance, ensure reliability, and realize a self-learning, self-optimizing, and self-healing SAN.

The ThinkSystem DB720S is an autonomous SAN building block; along with unmatched 64Gb/s performance, these Gen 7 switches offer a 50% latency reduction compared to Gen 6 to ensure maximum performance from NVMe storage.

Scale-Out Flash Storage Environments

Lenovo storage solutions deliver the performance, application response time, and scalability needed for next-generation data centers.

The ThinkSystem DB720S switch and storage arrays support NVMe over Fibre Channel which enables enterprises to move their high-performance, latency-sensitive workloads to the NVMe protocol without disruption.

Gen 7 Fibre Channel

Lenovo Gen 7 Fibre Channel is the storage network infrastructure for mission-critical workloads in medium to large environments. The DB720S is a Gen 7 building-block switch that provides ultra-low latency and flexible scalability from 24 to 64 SFP+ ports in a 1U form factor, supporting up to 64Gbps port bandwidth with simplified deployment, configuration, and management of SAN resources.

Autonomous SAN Innovation

Through a robust analytics architecture and Fabric Vision technology, the DB720S delivers autonomous SAN infrastructure that offers self-learning, self-optimizing, and self-healing capabilities. Fabric Vision is a suite of features that leverage comprehensive data collection capabilities with powerful analytics to quickly understand the health and performance of the environment and identify any potential impacts or trending problems.

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DB720S Specifications

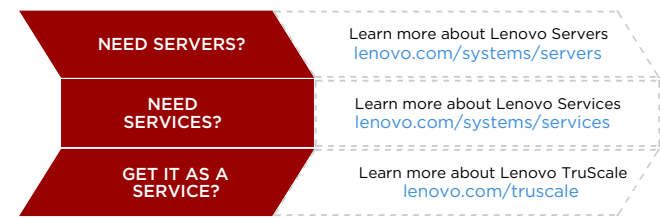|	
Models	• 32G: 24 active ports with 32Gbps SWL FC transceivers (R/F airflow) • 64G: 24 active ports with 64Gbps SWL FC transceivers (R/F airflow)
Fibre Channel ports	• Switch mode (default): Minimum of 24 ports and maximum of 64 ports • Ports are enabled in increments of 8 or 16 ports up to 64 ports via Ports on Demand (PoD) licenses; E_Ports, F_Ports, D_Ports, EX_Ports • Access Gateway default port mapping: 64 SFP+ F_Ports, 8 SFP+ N_Ports
Port on Demand Options	• 8-Port SW License with 32Gbps SWL FC transceivers • 8-Port SW License with 64Gbps SWL FC transceivers • 16-Port SW License with 64Gbps SWL SFP-DD FC transceivers
Aggregate bandwidth	4.096Tb/s
Maximum fabric latency	Latency for locally switched ports is 460 ns (including FEC)
Media types (Brocade transceivers required)	• 64Gbps: hot-pluggable SFP-DD, SN connector; 64Gb/s SWL • 64Gbps: hot-pluggable SFP+, LC connector; 64Gb/s SWL, LWL 10 km, ELWL 25 km • 32Gbps: hot-pluggable SFP+, LC connector; 32Gb/s SWL, LWL 10 km, ELWL 25 km • 10Gbps: hot-pluggable SFP+, LC connector; 10Gb/s SWL, LWL 10 km • Fibre Channel distance is subject to fiber-optic cable and port speed
Rack-mount rail kits	Fixed rail kit is included standard, Mid-mount rack kit optional
Software Included	Enterprise Software: Trunking, Fabric Vision, Extended Fabric and Integrated Routing
Enclosure	• (R) Back-to-front airflow; non-port-side intake; power from back, 1U • (F) Front-to-back airflow; non-port-side exhaust; power from back, 1U
Power supply	Dual, hot-swappable redundant power supplies with integrated system cooling fans
Warranty	3-year hardware and firmware/FOS (upgrades available)

For technical details, refer to the ThinkSystem DB720S Product Guide.

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US$62 billion revenue global technology powerhouse, ranked #171 in the Fortune Global 500, employing 77,000 people around the world, and serving millions of customers every day in 180 markets. Focused on a bold vision to deliver smarter technology for all, Lenovo is expanding into new growth areas of infrastructure, mobile, solutions and services. This transformation is building a more inclusive, trustworthy, and sustainable digital society for everyone, everywhere.

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