

# 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.

Lenovo

## DB720S Specifications

<b>Models</b>	<ul style="list-style-type: none"> <li>• 32G: 24 active ports with 32Gbps SWL FC transceivers (R/F airflow)</li> <li>• 64G: 24 active ports with 64Gbps SWL FC transceivers (R/F airflow)</li> </ul>
<b>Fibre Channel ports</b>	<ul style="list-style-type: none"> <li>• Switch mode (default): Minimum of 24 ports and maximum of 64 ports</li> <li>• 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</li> <li>• Access Gateway default port mapping: 64 SFP+ F_Ports, 8 SFP+ N_Ports</li> </ul>
<b>Port on Demand Options</b>	<ul style="list-style-type: none"> <li>• 8-Port SW License with 32Gbps SWL FC transceivers</li> <li>• 8-Port SW License with 64Gbps SWL FC transceivers</li> <li>• 16-Port SW License with 64Gbps SWL SFP-DD FC transceivers</li> </ul>
<b>Aggregate bandwidth</b>	4.096Tb/s
<b>Maximum fabric latency</b>	Latency for locally switched ports is 460 ns (including FEC)
<b>Media types (Brocade transceivers required)</b>	<ul style="list-style-type: none"> <li>• 64Gbps: hot-pluggable SFP-DD, SN connector; 64Gb/s SWL</li> <li>• 64Gbps: hot-pluggable SFP+, LC connector; 64Gb/s SWL, LWL 10 km, ELWL 25 km</li> <li>• 32Gbps: hot-pluggable SFP+, LC connector; 32Gb/s SWL, LWL 10 km, ELWL 25 km</li> <li>• 10Gbps: hot-pluggable SFP+, LC connector; 10Gb/s SWL, LWL 10 km</li> <li>• Fibre Channel distance is subject to fiber-optic cable and port speed</li> </ul>
<b>Rack-mount rail kits</b>	Fixed rail kit is included standard, Mid-mount rack kit optional
<b>Software Included</b>	Enterprise Software: Trunking, Fabric Vision, Extended Fabric and Integrated Routing
<b>Enclosure</b>	<ul style="list-style-type: none"> <li>• (R) Back-to-front airflow; non-port-side intake; power from back, 1U</li> <li>• (F) Front-to-back airflow; non-port-side exhaust; power from back, 1U</li> </ul>
<b>Power supply</b>	Dual, hot-swappable redundant power supplies with integrated system cooling fans
<b>Warranty</b>	3-year hardware and firmware/FOS (upgrades available)

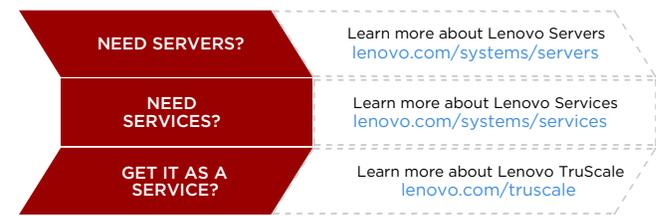
For technical details, refer to the [ThinkSystem DB720S Product Guide](#).

## 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.

## For More Information

To learn more about Lenovo rack and infrastructure solutions, contact your Lenovo Business Partner or visit: [lenovo.com/servers/options](https://lenovo.com/servers/options).



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