

# Lenovo ThinkSystem DB820S FC SAN Switch

Fixed-port switch, designed to  
unleash performance with  
uncompromising security



Lenovo

## Overview

The Lenovo ThinkSystem DB820S Gen 8 FC SAN Switch is a high-performance, 1U Fibre Channel switch, purpose-built to meet the demanding needs of modern data centers. With 56 128G SFP+ ports and unmatched low latency, this switch delivers exceptional bandwidth and throughput, making it ideal for fueling enterprise AI and modern workloads. With its compact design, the DB820S Switch enables efficient use of rack space while providing pay-as-you-grow scalability with Ports on Demand (POD), allowing organizations to expand from 24 to 56 ports in 8-port increments, reducing upfront costs, and ensuring non-disruptive capacity growth. All software features are included, eliminating the need for licenses or separate installations.

As cyber threats escalate, securing storage networks is paramount. Brocade Gen 8 technology provides the essential performance, automation, and security needed. With integrated quantum-resistant encryption and embedded SAN AI, the system defends against threats and modernizes SAN management. This results in quicker decisions, enhanced operational efficiency, and superior resilience.

The ThinkSystem DB820S switch delivers up to 99.9999% availability, featuring built-in congestion management and self-healing functions to ensure consistent traffic flow and uptime. Its "set-and-forget" automation minimizes the need for manual intervention, enabling IT teams to focus on strategic projects.

## Defend the Data Center with Advanced Security

The ThinkSystem DB820S switch provides a cyber-resilient, quantum-safe architecture, safeguarding critical data and applications from evolving threats. It secures storage traffic with fibre channel isolation, role-based access controls, and hardened Fabric OS® with validated roots of trust, preventing unauthorized access and malicious software.

Leveraging Gen 8 technology, the switch uses quantum-resistant 256-bit encryption and advanced cryptographic algorithms, including post-quantum cryptography, to protect against quantum attacks. This technology also strengthens the SAN with robust access controls and the principle of least privilege, reducing attack surfaces and vulnerabilities.

## Modernize SAN Management with AI-Powered Autonomy

Brocade Gen 8 technology, featuring embedded SAN AI, enhances network uptime and simplifies SAN management with improved visibility. Gen 8 modernizes SAN management with AI-powered autonomy, learning and adapting to issues based on decades of IT experience. SAN Fabric Intelligence (SAN FI) eliminates manual correlation of application resources by combining monitoring, troubleshooting, and cross-correlation of servers, storage, virtual machines, and fabric connections, providing end-to-end visibility for faster troubleshooting and smarter management. This significantly speeds up response times for resource-constrained IT teams.

Lenovo ThinkSystem DB820S Specifications

Models	<ul style="list-style-type: none"><li>128G: 24 active ports with 128Gbps SWL FC transceivers. Choice of NPI (Non-Port-side Intake) or NPE (Non-Port-side Exhaust) airflow.</li><li>64G: 24 active ports with 64Gbps SWL FC transceivers. Choice of NPI (Non-Port-side Intake) or NPE (Non-Port-side Exhaust) airflow.</li></ul>
Fibre Channel ports	<ul style="list-style-type: none"><li>Switch mode (default): 56 128G SFP+ ports, each supporting E_Ports, F_Ports, N_Ports, M_Ports, D_Ports, and EX_Ports</li><li>24-port base configuration; additional ports are enabled with up to four 8-port SFP+ PODs (Ports on Demand), scaling the switch from 24 ports to 56 ports</li><li>Access Gateway default port mapping: 56 SFP+ F_Ports, 8 SFP+ N_Ports</li></ul>
Port on Demand Options	<ul style="list-style-type: none"><li>8-Port SW License with 128Gbps SWL FC transceivers</li><li>8-Port SW License with 64Gbps SWL FC transceivers</li></ul>
Aggregate bandwidth	7.168Tb/s
Maximum fabric latency	Latency for locally switched ports is 580 ns at 128G with dual forward error correction (FEC)
Media types (Brocade transceivers required)	<ul style="list-style-type: none"><li>128Gbps SFP+, LC connector; 128Gbps SWL (also works at 64G &amp; 32G speeds)</li><li>64Gbps SFP+, LC connector; 64Gbps SWL, LWL 10 km, ELWL 25 km (also works at 64G &amp; 32G speeds)</li></ul>
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	1U
Power supply	<ul style="list-style-type: none"><li>Dual, hot-swappable, redundant power supplies with integrated system cooling fans.</li><li>80 Plus Platinum.</li></ul>
Warranty	3-year hardware and firmware/FOS (upgrades available)

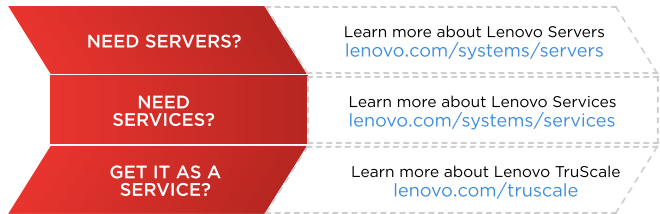
For technical details, refer to the [ThinkSystem DB820S FC SAN Switch Product Guide](#).

About Lenovo

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For More Information

To learn more about DB820S FC SAN Switch, contact your Lenovo representative or Business Partner or visit: [SAN Fibre Channel Switches product page](#).



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