

# ThinkSystem DB610S FC SAN Switch

Entry-cost, operational simplicity,  
and high-performance storage  
networking switch



## Highlights

- Deploy the lowest entry-cost storage switch that redefines simplicity and flexibility
- Meet high throughput, low latency demands of critical applications with flash-ready performance
- Seamlessly transition to next-generation NVMe flash arrays without a disruptive rip and replace
- Start small and grow on demand from 8 to 24 ports to support an evolving storage environment
- Power up from 16 to 32 Gbps to deliver increased performance on demand
- Install in 3 easy steps with a point-and-click user interface simplifying deployment and reducing time
- Increase resiliency by automatically discovering and recovering from common networking problems
- Proactively monitor the health and performance of individual Virtual Machines (VMs) with VM Insight
- Leverage Brocade Fabric Vision technology to simplify administration, quickly resolve problems, increase uptime, and reduce costs

## Flexible, Simple, and Easy to Use

The Lenovo ThinkSystem DB610S features up to 24 Fibre Channel (FC) ports in a low-cost, efficiently designed 1U form factor, delivering industry-leading Gen 6 FC technology. This entry-level, enterprise-class switch offers “pay-as-you-grow” scalability with Ports on Demand (PoD).

Organizations can quickly, easily, and cost-effectively start small and grow on demand from 8 to 24 ports. Each of the 24 SFP+ ports support 4, 8, 16, and 32Gbps FC speeds. The ThinkSystem DB610S provides excellent overall value and the agility needed to deliver rapid deployments to meet user demands and support higher growth.

## Performance for Evolving Storage

Faced with increased competition and the need to deliver differentiated services, organizations rely on leading technology to help them catapult their business and grow revenue. Lenovo Gen 6 FC delivers the industry’s most advanced 32Gbps performance to redefine the limits of the highest speeds in application performance and to unleash the full potential of new storage technologies.

The ThinkSystem DB610S combines market-leading Gen 6 throughput and low latency with an affordable switch form factor, making it ideal for small to midsize businesses to build a flash-ready infrastructure that adapts to expanding business requirements.

To realize the full benefits of flash, many organizations will transition their high-performance, latency-sensitive workloads to flash-based storage with NVMe. NVMe over Fabrics enables users to achieve faster application response times and harness the performance of solid state drives for better scalability across virtual data centers with flash.

Lenovo

Organizations can seamlessly integrate Lenovo Gen 6 FC networks with next-generation NVMe over Fabrics without a disruptive rip and replace. Leveraging the efficiency of NVMe over FC, combined with the high performance and low latency of Lenovo Gen 6 FC, organizations can accelerate IOPS to deliver the performance, application response time, and scalability needed for next-generation data centers.

## Simplify Management

Brocade Fabric Vision technology with VM Insight, an extension of Gen 6 FC, provides unprecedented insight and visibility across the storage network with powerful integrated monitoring, management, and diagnostic tools that enable organizations to simplify monitoring, increase operational stability and dramatically reduce costs. Lenovo Gen 6 technology builds upon years of FC innovation and leverages the core technology of Brocade systems to achieve continuous uptime with the industry's highest reliability for the world's most demanding data centers.

## Specifications

|                               |   |
|-------------------------------|---|
| <b>Scalability</b>            | Full-fabric architecture with a maximum of 239 switches   |
| <b>Certified Maximum</b>      | 6,000 active nodes; 56 switches, 19 hops in Brocade Fabric OS fabrics; larger fabrics certified as required   |
| <b>Fibre Channel Ports</b>    | Maximum of 24 ports configuration.<br>Switch mode (default): 8-, 16-, and 24-port configurations. can be an E, F, M and D ports<br>Brocade Access Gateway default port mapping: 16 F Ports, 8 N Ports |
| <b>Port on Demand (PoD)</b>   | <ul style="list-style-type: none"> <li>8-port SW License with 8 x 16Gbps SWL FC transceivers</li> <li>8-port SW License with 8 x 32Gbps SWL FC transceivers</li> </ul>                                |
| <b>Performance</b>            | Fibre Channel: 4.25Gbps line speed, full duplex; 8.5Gbps line speed, full duplex; 14.025Gbps line speed, full duplex; auto-sensing of 4, 8, 16 and 32Gbps port speeds                                 |
| <b>Aggregate Bandwidth</b>    | 768Gbps end-to-end full duplex  |
| <b>Maximum Fabric Latency</b> | Latency for locally switch ports is 900 ns (including FEC)  |
| <b>Port Types</b>             | F_Port, E_Port, M_Port, D_Port (ClearLink Diagnostic Port) on 24 SFP+ ports<br>Brocade Access Gateway mode: F_Port and NPIV-enabled N_Port  |
| <b>Media Types</b>            | Support any combination of 16/32Gbps Short Wavelength (SWL) and 16/32Gbps Long Wavelength (LWL) or 16Gbps Extended Long Wavelength (ELWL) hot-pluggable transceivers                                  |
| <b>Rack-mount Rail Kits</b>   | Fixed rail kit is included standard, Mid-mount rack kit (Part # 01KP864) -optional  |
| <b>Software Offerings</b>     | Enterprise Software Bundle includes Trunking, Fabric Vision, Extended Fabric: included standard or optional depending on model  |
| <b>Dimensions/Weight</b>      | Height: 4.29cm (1.68 in.); Width: 42.8cm (16.8 in.); Depth: 30.6cm (12.06 in.)/Weight: 5.73kg (12.65 lbs) fully loaded  |
| <b>Power and Cooling</b>      | Base switch includes a single, fixed power supply with four integrated system cooling fans  |
| <b>Power Consumption</b>      | 76.52W with all 24 ports populated with 32Gbps SWL optics<br>55.83W for idle configuration (all optics loaded but not initialized)  |

For technical details, refer to the Lenovo ThinkSystem DB610S 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.

\* Part of the Enterprise Bundle.

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## For More Information

To learn more about Lenovo ThinkSystem DB610S Fibre Channel SAN Switch, contact your Lenovo representative or Business Partner, or visit [lenovo.com/systems/servers](http://lenovo.com/systems/servers), then select Storage, Storage Area Network and then Fibre Channel Switches.

