

ThinkSystem DB630S FC SAN Switch

Accelerate Business Operations with NVMe and Automation



Simple and Elegant Scalability with Industry Leading Port Density

The Lenovo ThinkSystem DB630S provides “pay-as-you-grow” scalability which can scale from 48 to 128 ports, all in an efficient 2U package.

The compact design enables data centers to scale efficiently and deliver more connectivity with fewer switches. In addition, each Q-Flex port can support 128 Gbps per port for ISL trunking up to 8 ports between a pair of switches to form a single logical ISL.

To support higher data volumes over long distance, the DB630S delivers in-flight encryption and data compression to optimize bandwidth and minimize the risk of unauthorized access. Moreover, internal fault-tolerant and enterprise class RAS features help minimize downtime to support mission-critical environments.

Maximize Performance

The DB630S also delivers Gen 6 Fibre Channel performance to support growing and dynamic workloads. It achieves this level of performance through a combination of market leading low latency and up to 566 million frames switched per second—shattering application performance barriers with up to 200 million IOPS.

At the same time, port-to-port latency is minimized to less than 780 ns (including FEC) through the use of cut-through switching providing elegant scalability and powerful performance to stay ahead of the demands of flash storage workloads.

Increase Productivity

IT organizations can significantly improve their efficiency, agility and dramatically decrease the risk of operational mistakes by simply automating repetitive tasks. By introducing REST APIs directly into the switch and management products, Brocade offers a broad range of choices to enable any SAN management solution.

IT organizations that couple Brocade’s robust data collecting capabilities with automation and orchestration tools (such as Ansible) gain the ability to automate configuration tasks and the visibility to monitor and detect any performance or health changes.

Enhanced Operational Stability

The DB630S with Brocade Fabric Vision® technology delivers a breakthrough solution that helps simplify monitoring, increase operational stability, and dramatically reduce costs. It also includes IO Insight and VM Insight, which provides administrators with deeper visibility to quickly identify problems and accelerate root cause analysis for faster time to resolution.

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The DB630S also optimizes the performance of NVMe over Fibre Channel by leveraging integrated, non-intrusive, real-time network monitoring and alerts. This provides administrators with key insights for maintaining optimal network health and performance.

Specifications

Models	Entry: 48 active ports with 32 Gbps SWL FC transceivers Enterprise: 96 active ports with 32 Gbps SWL FC transceivers, plus Enterprise Software Bundle
Fibre Channel ports	Minimum of 48 ports and maximum of 128 ports. Also supports F/E/EC_Port and D_Port types
Port on Demand options	24-Port SW license with 32Gbps SWL FC transceivers 8-port QSFP+ SW License with eight 4x32 QSFP+ transceivers
Performance	Auto-sensing of 4, 8, 16, 32 Gbps port speeds and capable of supporting 128 Gbps speeds 10 Gbps optionally programmable to fixed port speed
ISL Trunking (included in the Enterprise bundle)	Frame-based trunking with up to eight 32 Gbps connections between a pair of switches combined to form a single logical ISL with a speed of up to 256 Gbps (512 Gbps full duplex) per ISL trunk.
Aggregate bandwidth	4 Tbps
Maximum fabric latency	Latency for locally switched ports is < 780 ns; Encryption/compression is 1 µs per node.
Media types	10/16/32 Gbps SWL/LWL/ELWL SFP Transceivers 128 Gbps QSFP+ options are also available for the 128 Gbps Q-Flex ports.
Rack-mount rail kits	Fixed rail kit is standard; Mid-mount rack kit is optional
Software offerings	Enterprise Software Bundle includes Trunking, Fabric Vision, Extended Fabric Integrated Routing Software
Enclosure	Rear-to-front airflow (port-side exhaust); 2U rack mount
Hot-swap components	Two hot-swap redundant power supplies and three hot-swap fan assemblies, all standard
Warranty	1-year hardware and firmware/FOS (upgrades available)

For technical details, refer to the ThinkSystem DB630S product guide, lenovopress.com/lp1090.

About Lenovo

Lenovo (HKSE: 992) (ADR: LNVGY) is a US\$70 billion revenue global technology powerhouse, ranked #159 in the Fortune Global 500, employing 75,000 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/us/en/c/san-fibre-channel-switches.

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