IBM System Storage SAN06B-R extension switch

Designed for fast, reliable and cost-effective remote data replication and backup over long distance

Highlights

- Enable fast, reliable and cost-effective remote data replication, backup and migration

- Reduce operational costs, maximize uptime and optimize application performance

- Maximize replication, backup and migration throughput over distance

- Enable consolidation while providing traffic isolation in mixed environments

- Boost wide area network (WAN) link utilization and resiliency

- Expand flexibility to support a broad range of storage area network (SAN) extension requirements with an extensible hardware platform and flexible software licensing

The IBM® System Storage® SAN06B-R extension switch leverages advanced Fibre Channel and Fibre Channel over IP (FCIP) technology to provide a fast, highly reliable, cost-effective network infrastructure for remote data replication, backup and migration. Whether configured for simple point-to-point or comprehensive multisite SAN extension, the SAN06B-R extension switch addresses the most demanding business continuity, compliance and global data access requirements. Up to 16 8 Gbps Fibre Channel ports and six 1 Gigabit Ethernet (GbE) ports provide the Fibre Channel and FCIP bandwidth, port density and throughput required to help maximize application performance over WAN links.

A scalable, flexible SAN extension platform

The SAN06B-R switch provides an ideal platform for building or expanding a high-performance SAN extension infrastructure for disaster recovery, data protection and data mobility storage solutions. It leverages cost-effective IP WAN transport to extend open systems and mainframe disk and tape storage applications over distances that would otherwise be impossible, impractical or too expensive with standard Fibre Channel connections.

Available in two configurations, SAN06B-R supports a variety of architectures and deployment models to address current and future SAN extension requirements. A broad range of optional advanced extension, IBM FICON® and SAN fabric services are available to address the most challenging extension and storage networking requirements.

Outstanding performance and optimization

Purpose-built Fibre Channel and FCIP switch port density, bandwidth and throughput are designed to address today's dynamic input/output (I/O) and workload requirements and to meet the evolving requirements of highly virtualized data centers. The SAN06B-R extension switch is designed to maximize replication, backup and migration throughput over distance using advanced Fibre Channel frame compression, disk and tape protocol acceleration, and FCIP networking technology.[1] SAN06B-R enables a cost-effective SAN extension solution over distances up to 17,500 kilometers (nearly 11,000 miles).

Simplified disaster recovery and data protection

Today's organizations depend on fast, reliable access to data wherever and whenever needed, regardless of location. As a result, the ramifications and potential business impact of an inadequate disaster recovery and data protection infrastructure are greater than ever. SAN06B-R extends open systems and mainframe disk and tape storage applications over distances that would otherwise be impossible, impractical or too expensive with native Fibre Channel connections. This extended distance connectivity enables metro and global mirror disk-based, disaster-tolerant solutions as well as consolidated remote tape vaulting data protection solutions.

The advanced performance and network optimization features and proven hardware reliability of SAN06B-R enable replication and backup applications to send more data over FCIP links in less time across a highly reliable network infrastructure. SAN06B-R combines enterprise-class availability features such as hot-pluggable redundant power supplies and fans with nondisruptive software upgrades to maximize application uptime and minimize outages. These unique capabilities enable a high-performance and highly reliable network infrastructure for disaster recovery and data protection.

Fabric Operating System

SAN06B-R utilizes the same Fabric Operating System (FOS) that supports the entire IBM System Storage b-type SAN family—from IBM System Networking SAN24B-5 to IBM System Storage SAN768B-2 and SAN384B-2—with Gen 5 Fibre Channel. This helps ensure seamless interoperability with advanced features such as Inter-Switch Link (ISL) Trunking Activation, Adaptive Networking, Advanced Performance Monitoring, Fabric Watch, Integrated Routing, Extended Fabric, Server Application Optimization and Fabric Vision.[1]

In addition, organizations can perform management and administrative tasks through familiar management tools, including IBM Network Advisor, Web Tools and command-line interface (CLI). Moreover, optional FICON Control Unit Port (CUP) capabilities enable legacy management applications to easily support FICON environments.

IBM Network Advisor software provides end-to-end management of data center fabrics from storage ports on networked storage systems to host bus adapters attached to physical or virtualized servers. IBM Network Advisor v12.0 or later is necessary to support transitions to cloud environments.

Simplified management and robust network analytics

The SAN06B-R extension switch incorporates Fabric Vision, a breakthrough hardware and software technology designed to maximize uptime, simplify SAN management, and provide outstanding visibility and insight across the storage network. Offering innovative diagnostic, monitoring and management capabilities, SAN06B-R with Fabric Vision technology helps administrators avoid problems, maximize application performance and reduce operational costs. SAN06B-R supports the following Fabric Vision technology features: Flow Monitor, Monitoring and Alerting Policy Suite (MAPS), Bottleneck Detection, integration with IBM Network Advisor, critical diagnostic and monitoring capabilities, and non-intrusive and nondisruptive monitoring on every port.[1]

Why IBM?

To stay competitive in the global marketplace, employees need to have access to the right information at the right time, to help them be effective, creative and highly innovative. For today's smarter planet, where organizations and networks are more instrumented, interconnected and intelligent than ever before, IBM provides flexible, scalable and open standards-based, business-class and global enterprise-class storage networking solutions.

IBM System Storage SAN06B-R at a glance

Product number	2498-R06
Hot-swappable components	Small form-factor pluggable (SFP) transceivers, power supply/dual-fan modules
Warranty	One year; customer-replaceable unit (CRU) and onsite; next business day response, warranty service upgrades are available
Optional features	8 Gbps Advanced Extension, Port Activation, Adaptive Networking, FICON Accelerator, Extended Fabric, Fabric Watch, ISL Trunking, Advanced Performance Monitoring, Integrated Routing, Server Application Optimization, FICON with CUP Activation, Fabric Vision and the Enterprise Bundle*
Size	Width: 43.18 cm (7.00 in.); Depth: 64.14 cm (25.25 in.); Height: 4.45 cm (1.75 in.)
Weight	10.9 kg (24 lb) with two power supplies and zero small form-factor pluggables

For more information

To learn more about IBM System Storage SAN06B-R, please contact your IBM representative or IBM Business Partner, or visit:

ibm.com/systems/networking/switches/san/b-type/san06b-r/

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