STORAGETEK ®

BROCADE SILKWORM
3850
ENTERPRISE FABRIC SWITCH

Key benefits

Affordable power
Entry-level pricing provides an affordable SAN foundation with 2-gigabit-per-second Fibre Channel ports and up to 32 gigabits per second of aggregate switch throughput.

Pay-as-you-grow architecture
Sixteen-port architecture allows you to start small with a two-switch fabric and migrate to full-fabric enterprise capabilities using other Brocade switches and directors.

High availability
Hot code activation, automatic path rerouting, extensive diagnostics and dual-redundant power supplies help avoid downtime and meet high-availability requirements.

Bidirectional compatibility
Auto-sensing 1- and 2-gigabit-per-second interfaces provide full forward and backward compatibility to existing and emerging Brocade SAN fabrics.

Simplified management
An easy-to-use interface and simplified management routines help increase productivity and reduce networking and management costs.

Flexible architecture
Built-in adaptability provides a solid foundation for small stand-alone SANs or for high-volume edge switching in core-to-edge SAN environments.

Brocade SilkWorm 3850 enterprise fabric switch

The 16-port Brocade® SilkWorm® 3850 enterprise fabric switch allows you to do more with less — less time, less budget, smaller investment, fewer headaches. This enterprise switch simplifies many IT management tasks, shrinks data backup windows, improves system performance and reduces overall storage costs. With its flexible architecture and auto-sensing 1- and 2-gigabit-per-second Fibre Channel ports, it's the ideal starting point for organizations with direct-attached storage (DAS) that want to migrate to a SAN deployment to create a secure, affordable solution for data backup/restore, disaster recovery, storage consolidation and disk mirroring.

Ready to grow a step at a time
The SilkWorm 3850 switch includes built-in features that make it easy to deploy, manage and integrate into a wide range of IT environments. It's fully interoperable with existing 1- and 2-gigabit-per-second Brocade switches and newer Brocade SAN switches and directors, so you can migrate to more sophisticated architectures and applications as network traffic expands. It integrates easily into heterogeneous environments that include Windows 2000 and NT, UNIX, Linux, HP-UX, Solaris, AIX and others.

Reliability from core to edge
The SilkWorm 3850 switch is designed for reliable data transfer. Fabric Shortest Path First (FSPF) technology allows the switch to automatically isolate problems and reroute traffic around failed links. Redundant, hot-swappable components and dual-power supplies keep the system online. Network health monitoring, advanced performance monitoring, error detection with fault isolation and other features accelerate troubleshooting. The result: industry-leading availability up to 99.999 percent.

Consolidation is good
By consolidating storage, small and medium-sized organizations have fewer physical assets to manage, so internal resources can focus on business growth and strategic initiatives. That's the competitive advantage of the SilkWorm 3850 switch. You get an easy-to-manage storage infrastructure that improves operational efficiency, simplifies IT management, accelerates system maintenance and shortens backup and restore windows. And with Brocade Secure Fabric OS®, an embedded, real-time operating system, you also get the latest networking security technology to address vulnerabilities within the SAN fabric. Your data pipeline is safe, secure and ready to grow.

Brocade SilkWorm 3850 enterprise fabric switch specifications

Performance

Port speed	2.125 Gb/sec line speed, full-duplex
Aggregate bandwidth	64 Gb/sec end-to-end
Latency	<2.1 microsec with no contention, cut-through routing at 2 Gb/sec
Maximum frame size	2112-byte payload

Capacity

Fibre Channel ports	16 universal ports
Scalability	2-switch fabric, 4-switch fabric, up to a full-fabric architecture with 239 switches maximum
Certified maximum	32 switches, 7 hops with optional full-fabric license; larger fabrics certified as required

Compatibility

Interoperability	SilkWorm II, SilkWorm Express or any SilkWorm 2000 switch
Class of service	Class 2, Class 3, Class F (inter-switch frames)
Port types	FL_Port, F_Port, E_Port; self-discovery based on switch type (U_Port)
Data traffic types	Fabric switches support unicast, multicast (256 groups) and broadcast
Media types	Hot-pluggable, industry-standard Small Form Factor Pluggable (SFP), LC connector; Short-Wavelength Laser (SWL); Long-Wavelength Laser (LWL); distance depends on fiber optic cable and port speed

Management

Fabric services	Simple Name Server, Registered State Change Notification (RSCN), Alias Server (multicast) and Brocade Advanced Zoning
	Optional fabric services include: Fabric Watch, Extended Fabrics, Advanced Performance Monitoring, ISL Trunking, Secure Fabric OS and Remote Switch
Management software	Telnet; SNMP (FE MIB, FC Management MIB); Brocade WEB TOOLS; Brocade Fabric Manager (optional)
Management access	10/100 Ethernet port (RJ-45); Serial port (RS-232); in-band through Management Server
Diagnostics	POST and embedded online/offline diagnostics

Mechanical

Height	1.7 in (4.3 cm)
Depth	12.1 in (30.7 cm)
Width	16.9 in (42.9 cm)
Weight	9.4 lb (4.2 kg)

Environmental

Temperature	
Operating	+50° to +104° F (+10° to +40° C)
Non-operating	-13° to +158° F (-25° to +70° C)
Humidity	20%–85% non-condensing at +104° F (+40° C)
Altitude	Up to 9,800 ft (3,000 m)
Vibration	
Operating	0.5 g sine, 0.4 grms random, 5–500 Hz
Non-operating	2.0 g sine, 1.1 grms random, 5–500 Hz
Shock	80 g, 2.5 ms, half-sine

Power

Supported power range	AC input 100–240 VAC, 0.5 A (nominal)
Frequency	47–63 Hz

Regulatory compliance

Safety	Underwriters Laboratories, UL60950; Canadian Standards Association, CSA60950; TUV Rheinland of North America, EN60950; Nemko, EN60950; Low Voltage Directive (73/23/EEC) for CE Marking in European Union

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