



SANbox 3810 FC SAN Switch

Affordable Solution for Small SANs

Why Install a SAN?

- Share storage resources among servers
- Reduce hardware and management costs
- Improve application performance and availability
- Accelerate server backups and disaster recovery
- Increase overall storage capacity

SANbox 3810 Features

- 8 ports
- 8-Gbps speed (100% non-blocking)
- Backwards-compatible with 4Gb and 2Gb devices
- 1U rack-mountable unit

Easy to Deploy and Use

- Configuration wizards for fast setup
- QuickTools™ on-board GUI
- Command Line Interface (CLI)
- I/O StreamGuard™ – guaranteed stability for tape, video and other streaming applications
- NPIV support for virtualized environments
- Advanced Fabric Security included
- Drag-and-drop zoning

Hassle-Free Interoperability

- Deploy with 8Gb, 4Gb or 2Gb optics
- Compatible with all leading adapters and storage



Connect your first SAN with today's most advanced technology.

SANbox 3810 offers the simplest and most affordable way to share the capacity of Fibre Channel storage devices among multiple servers. Maximize the value of your RAID and tape library investments with simultaneous direct server connections via a state-of-the-art Storage Area Network.

Link up to eight devices in a single-switch configuration with quick installation wizards and an easy-to-use on-board management GUI. Perfect for high-speed server backup or departmental "SAN islands," SANbox 3810 helps busy IT managers centralize storage control and reduce overall infrastructure costs while improving their users' access to data.

Cost-conscious companies no longer need to sacrifice strategic IT goals to meet budgetary goals. With the 3810, included features such as I/O StreamGuard and NPIV support provide all the enterprise-class performance that QLogic's larger customers have come to depend on – *at a price that will pay off immediately for even the smallest businesses.*

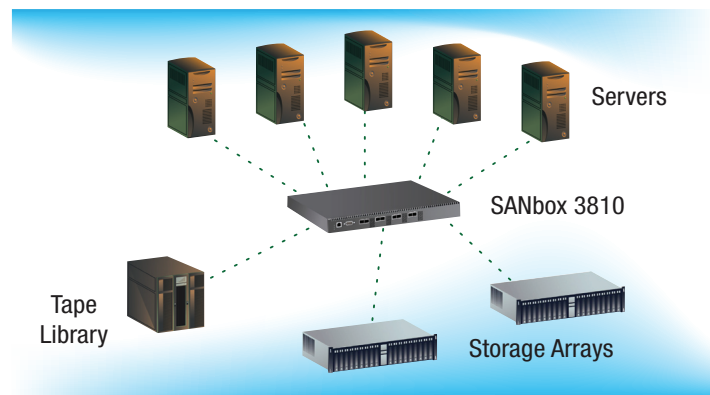


Fig. 1 Experience the cost-saving benefits of shared storage: Maximize return on RAID/tape investments; scale storage independently of servers; manage access centrally.

Best of all, leading 8Gb Fibre Channel technology ensures this reliable entry-level switch will continue to meet the most demanding requirements far into the future, while maintaining full backward compatibility with 4Gb and 2Gb devices. Increase the long-term impact of your mission-critical storage infrastructure with today's best SAN switch value.

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Fabric Specifications

Ports per Chassis

- (8) 8Gb SFP ports

Port Types

- All ports are universal, auto-discovering, self-configuring, and assume the following states: F_Port, FL_Port, G_Port, GL_Port. (E_Port capability not included – product is intended for single-switch environments only)

Performance Features

Fabric Port Speeds

- 2/4/8-Gbps full-duplex
- All ports auto-negotiate with slower devices
- Fabric latency less than 0.2us
- Cut-through routing

Fabric point-to-point bandwidth (8-port switch)

- 680 MBps, full-duplex

Aggregate Bandwidth (8-port Switch)

- 136 Gbps per chassis, end-to-end
- Non-blocking architecture

Maximum Frame Sizes

- 2148 bytes (2112 byte payload)

Per-Port Buffering

- ASIC-embedded memory (non-shared)

Media

Supported SFP Types

- Hot-pluggable, industry-standard 3.3 volt SFP+ (8Gb) transceivers
- Also compatible with 4Gb and 2Gb SFPs
- Shortwave/longwave (optical), active copper

Media Transmission Ranges (@ 2-Gbps)

- Shortwave optical: 500m (1,640 ft.)
- Longwave optical: 10km (6.2 mi.)

Cable Types

- 50/62.5 micron multimode fiber optic
- 9 micron single-mode fiber optic

Interoperability

- Management interoperability with leading SAN management applications

Fabric Management

Management methods

- QuickTools web applet (embedded on switch)
- Command Line Interface
- API, GS-4 Management Server (including FDMI), SNMP, RADIUS, FTP, TFTP, SMI-S

Security

- User Security
 - User Accounts
 - RADIUS Authentication
- Connection Security
 - SSH (CLI)
 - SSL (Enterprise Fabric Suite and SMI-S)
- Device Security
 - FC-SP DH-CHAP
 - FC-GS-4 CT Authentication

Access methods

- 10/100 Ethernet Base-T (RJ45), serial port (RS-232 with DB9), IPv6 support

Diagnostics

- Power-on self test (POST)

Fabric Services

- N_Port ID Virtualization (NPIV) support
- Simple name server
- Hardware based zoning
- Registered State Change Notification (RSCN)
- I/O StreamGuard™
- Automatic path selection
- FDMI support

User Interface

- LEDs, Command-line console, Web utilities

Mechanical / Power / Cooling

- Optional rail mount kit
- Front-to-back air pattern
- RoHS-compliant

Dimensions

- H x W x D = 43.2 x 432 x 476 mm (1.7 x 17 x 18.75 in)

Weight

- Weight = 6.35 kg (14 lbs)

Environmental and Equipment Specifications

Operating

- Temperature: 0° to 40°C
- Humidity (rH): 15% & 80% 24-hour soak, non-conditional, 5% to 90% 8-hour ramp
- Altitude: 0 to 10,000 feet
- Vibration: 5-500 Hz, random, 0.21 g rms, 10 minutes
- Shock: 4g, 11ms, 20 repetitions

Non-Operating

- Temperature: -40° to 70°C
- Humidity: 5% to 90% non-condensing
- Altitude: 0 to 50,000 feet
- Vibration: 5 to 500 Hz, random, 2.09 g rms, 10 minutes
- Shock: 30g, 13 msec, trapezoidal

Electrical

- Voltage: 100 to 240 VAC; 50 to 60Hz
- Power load: 1A at 120 VAC; 0.5A at 240 VAC
- Power Consumption 60W nominal, 70 watts typical maximum

Agency Approvals–Product Safety

- US/Canada: UL/cUL, 60950-1
- Europe: EN60950, CB Scheme-IEC 60950-1, CE, TUV, Low Voltage Directive
- Russia: GOST R
- Demko

Agency Approvals–EMI/EMC

- Meets Class A emissions and immunity requirements for USA, Canada, Europe, Australia, New Zealand, Korea, Japan



The Ultimate in Performance

For information about supported SAN standards and classes of service, visit www.qlogic.com/sanstandards.

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