



i8100B-SMB

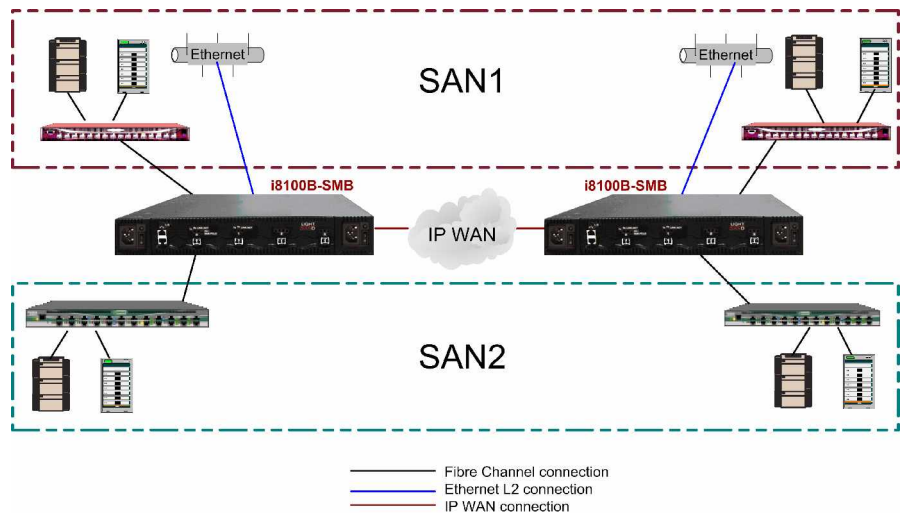
KEY FEATURES:

- Flexible and Powerful FC and Layer 2 GbE Over Routed IP Gateway**
- Cost Reduction**
Implements a trunking mechanism, which allows using a single WAN connection for maintaining two parallel FC fabrics. Two FC fabrics separated by thousands of kilometers can be merged over low cost Internet connections to operate as a single fabric.
- Interoperability**
Fully compliant with FC standards and provides basic services for native modes of major FC switch vendors.
- Multi-Service Connectivity**
Provides tunneling of ULP independent L2 Ethernet traffic as well as Fibre Channel through the same WAN infrastructure, to meet particular application needs.
- Designed for Distance**
On the FCIP side i8100B-SMB implements a connection-oriented, frame-based reliable protocol that moves FC and L2 over IP for distances of thousands of kilometers without performance degradation, and with data and order delivery guaranteed. Software adjustable speed and Congestion Avoidance mechanism allow maintaining maximal possible performance in shared or low bandwidth IP WAN environments.
- Compression**
Implemented for more effective utilization of low bandwidth or provisioned bandwidth connections. It allows transferring more data while keeping the low price of the extension circuit.

OVERVIEW

With the ever-increasing need to safeguard data, many companies are looking for methods of connecting their storage area networks (SANs) across the wide area network (WAN). For applications that are well suited to routed IP Networks, LightSand's i8100B-SMB transports Fibre Channel and protocol independent Layer 2 Ethernet (SNA, Novell, VMS SCS and other) across a wide area ranging from campus level to continental level.

Combining unique support for a multi-site environment with the ability to tunnel data from multiple FC fabrics and Ethernet LANs over the same WAN, the i8100B-SMB is an indispensable part of a flexible SMB solution. By using industry standard networking protocols, the i8100B-SMB is easily integrated into existing IP environments, or interconnected over dark fiber and metropolitan CWDM or DWDM.



Applications

The i8100B-SMB provides transparent bridging services for SANs over IP (FCIP) networks for applications that include data replication and migration, disaster recovery, remote access, business continuity and asset management:

Data Protection

- Synchronous and asynchronous mirroring
- Remote tape vaulting

IT Cost Reduction

- Extended use of Remote equipment
- Reduction of storage through consolidation

High Availability Access to Data

- Storage Consolidation
- Centralized tape backup
- Distributed clustering applications

SPECIFICATIONS:

SYSTEM ARCHITECTURE:

Gateway Architecture	4 ports, wire-speed, unblocked, aggregate bandwidth - 8 Gbit/sec
SAN Ports.....	2 Fibre Channel ports
SAN Port Media	Fibre Channel, 1.0625 Gb/s, SFP (multi-mode (850nm), as a standard)
FC Standards	FC-PH-2, FC-MI, FC-PH, FC-FS, FC-BB, FC-BB-2, FC-SW-2
FC Port Type	B_port
FC CoS	Class 2, Class 3, Class F
B2B Credits	Up to 16
L2 Tunneling Ports	1 Port
L2 Port Media.....	Gigabit Ethernet, 1.25 Gb/s, SFP (multi-mode (850nm), as a standard)
WAN Ports	1 port
WAN Port Media	Gigabit Ethernet, 1.25 Gb/s, SFP (multi-mode (850nm), as a standard)
Gigabit Ethernet Standards	802.3z
Encapsulation	FC over IP (FCIP)
Extension Distance	3,000km

SPECIAL FEATURES

Bandwidth management.....	Manual rate adjustments; Auto-adjustment Rate (congestion avoidance)
Compression.....	Over IP, maximum ratio 1:21

MANAGEMENT

Supported Software	SANman™ (GUI); Telnet, SNMP; MIB-II, Fiber Alliance MIB, RMON MIB, RFC 2837, configurable traps
Management Access	10/100BaseT Ethernet (RJ-45); Serial port;
Diagnostics	BIST (built-in self test); Local Spin Test; Remote Spin Test; Bandwidth Probing

MECHANICAL SPECIFICATIONS

Dimensions.....	Width: 17.4" x Depth: 17.9" x Height: 2.6" - 1.5u
Weight.....	22.9 pounds (10.4 kg)
Rack Mounting	19" rack
Cooling.....	Front to back (fans FRU, hot swap)

POWER SPECIFICATIONS

Dual Power Supply (optional).....	FRU (hot swap)
Supported Power.....	Nominal: 320mA at 220-240V; Nominal: 640mA at 110-115V (auto select)
Frequency	50/60 Hz
Power Consumption.....	75 Watts (maximum)

ENVIRONMENT AND REGULATIONS

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 85% non-condensing
Regulatory	UL Listed, FCC Class A product, complies with Canadian ICES-003



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