



i-1100

KEY FEATURES:

- *Intelligent FCV over IP gateway in a compact 1U design.*
- *Flexible and affordable solution, to extend legacy devices working with ESCON interfaces*
- *Transparent and simple to implement*
- *Uses existing FICON/FC cabling infrastructure*
- *Engineered for Long Distance – transferring FCV over IP for long distances without performance degradation, and with data and order delivery guaranteed.*
- *Includes traffic shaping mechanisms such as Manual Rate Limitation and Congestion Avoidance to allow maintaining maximal possible performance in shared or low bandwidth IP WAN environments.*
- *Uses Hardware Compression for more efficient utilization of low bandwidth or provisioned bandwidth connections.*

OVERVIEW

With the ever-increasing need to safeguard data, many companies are looking for methods of connecting their devices across the wide area network (WAN). For legacy devices working with ESCON interfaces, LightSand's i-1100 offers a truly flexible and affordable solution, to extend these devices using the FCV protocol.

FCV is a Mainframe Proprietary protocol used to transport ESCON traffic in the local communication between ESCON directors, or directors and IBM Mainframes. It utilizes the use of IBM Mainframe standard FICON Port in FCV mode and standard ESCON Director with FCV port.

For applications that are well suited to routed IP Networks, LightSand's i-1100 transports FCV traffic across a wide area ranging to offer a support in a variety of applications while maintaining wire-speed – all in a cost effective compact 1U design.

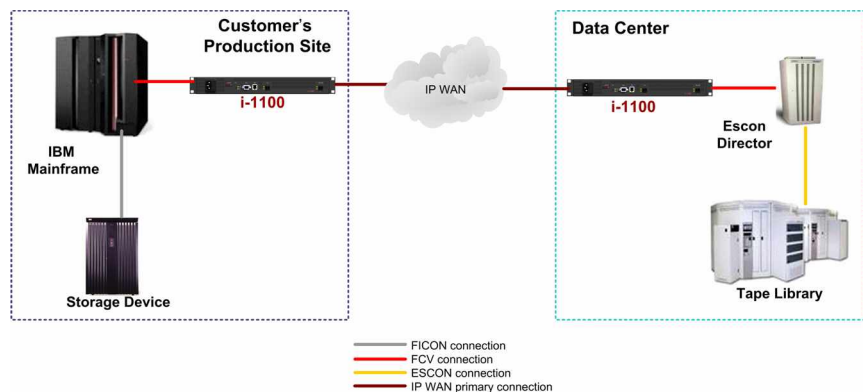
Low Cost FCV without the Traditional Limits

LightSand's i-1100 overcomes standard ESCON distance limitations. ESCON devices separated by thousands of kilometers can now communicate. The use of the FCV protocol, reduces the number of ports needed in the Mainframe, compared to ESCON, and can utilize the same FC/FICON cabling infrastructure.

Engineered for Long Distance

The i-1100 is connected to the WAN over industry standard Gigabit Ethernet 1000Base-SX interfaces. A Congestion Avoidance mechanism implemented on IP extension interfaces allows maintaining maximal possible performance in shared or low bandwidth IP WAN environments.

On the FCIP side i-1100 implements a connection-oriented, frame-based protocol that moves FCV over IP for distances of thousands of kilometers without performance degradation, and with data and order delivery guaranteed. Any frame loss or corruption is completely recovered by the i-1100 rather than by the devices. In addition, the i-1100 uses Hardware Compression for more efficient utilization - transferring more data while keeping the low price of the extension circuit



SPECIFICATIONS:**SYSTEM ARCHITECTURE:**

SAN Ports.....	1 FCV port
SAN Port Media	Fibre Channel, 1.0625 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	12,000km at Full Wire-Speed
Gateway Architecture	2 ports, wire-speed

SPECIAL FEATURES

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

MANAGEMENT

Supported Software	SANman™ (GUI); HTML (Web Browser); Telnet, SNMP; MIB-II, Fiber Alliance MIB, RMON MIB, RFC 2837, configurable traps
Management Access	10/100BaseT Ethernet (RJ-45); DB-9 Serial port;
Diagnostics	BIST (built-in self test); Local Spin Test; Remote Spin Test; Bandwidth Probing

MECHANICAL SPECIFICATIONS

Dimensions.....	Width: 17.4" x Depth: 12.6" x Height: 1.8" - 1u
Weight.....	11 pounds (5 kg)
Rack Mounting	19" rack

POWER SPECIFICATIONS

Supported Power.....	Nominal: 200mA at 220-240V; Nominal: 400mA at 110-115V (auto select)
Frequency.....	50/60 Hz
Power Consumption.....	44 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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