

MAJOR FEATURES

Simultaneous full duplex 2Gb/s Fibre Channel

Full fabric support using F_Port and FL_Port connections

Onboard hardware context cache for superior fabric performance

Support for concurrent multiple protocols (SCSI and IP)

Full support for FC service Classes 2 and 3

Support for FC-Tape (FCP-2) devices

64 bit, SBus

End-to-end parity protection for high data integrity

Buffered data architecture to support extended cabling length

Automatic speed negotiation

Automatic topology detection

Optical small form factor (LC) interface support

Supports common HBA API Management Interface (FC-MI Annex A)

Supports Fibre Channel fabric boot

LightPulse™

LP9002S

2Gb/s Fibre Channel SBus Host Adapter

Optimized for Sun Microsystems SBus servers, the LightPulse™ LP9002S Fibre Channel SBus host adapter provides support for 2Gb/s Fibre Channel data rates, delivering the industry's highest performance. The LP9002S features automatic speed negotiation capability which allows complete compatibility with existing 1Gb/s Fibre Channel Storage Area Networks (SANs), while allowing seamless upgrades to higher speed 2Gb/s SANs.

The LP9002S provides the flexibility and interoperability needed for complex, highly scalable SANs. The LP9002S provides a unique combination of features, including fabric support using F_Port and FL_Port connections, full-duplex data transfers, high data integrity features, support for all Fibre Channel topologies, and support for service class 2 and 3.

LP9002S also features sophisticated hardware that provides superior performance in SANs, delivering low latency and high throughput in fabric and clustered environments.



FC

2G

SBUS

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SPECIFICATIONS

STANDARDS

FC-PH-1, 2, 3: Fibre Channel physical and signaling interface standards
FC-AL: Fibre Channel Arbitrated Loop standard
FCP: Fibre Channel Protocol for SCSI standard
PCI: Local bus specification V2.1
SBUS: Specification B.0 for Sun Microsystems SBUS specification
IEEE: Standard 1496 for SBUS standard

ARCHITECTURE

Emulex Centaur ASIC technology
512KB FLASH memory
1MB code RAM
128KB buffer RAM

SOFTWARE ENVIRONMENTS

Solaris SPARC

HARDWARE ENVIRONMENTS

Sun Enterprise (Ultra) servers ES3500, ES4500, ES5500, ES6500 and UE10K

OPTICAL

Data rate: 1.0625Gb/s/2.125Gb/s
Optics: short-wave multi-mode lasers
Cable: 50/125µm multi-mode fiber
62.5/125µm multi-mode fiber
Connector: LC
Distance: (1Gb/s)
500 meters (1640') 50/125 µm fiber
300 meters (984') 62.5/125 µm fiber
(2Gb/s)
300 meters (984') 50/125 µm fiber
150 meters (492') 62.5/125 µm fiber

PHYSICAL DIMENSIONS

SBus single-width form factor
146.7mm x 83.82mm (5.78" x 3.3")

POWER REQUIREMENTS

Volts: +5 VDC, +12 VDC @ 15 ma
Power: 6.9 watts typical (10w max)

ENVIRONMENTAL CONDITIONS

Operating temperature:
0° to 45°C (32° to 113°F)
Airflow required: 100 lfm
Storage temperature:
-40° to 70°C (-40° to 158°F)
Relative humidity: 5% to 95% non-condensing

AGENCY APPROVALS

Class 1 Laser Product per
DHHS 21CFR (J) & EN60825
UL recognized to UL 1950
CUR recognized to CSA22.2, No. 950
TUV certified to EN60950
FCC rules, Part 15, Class A
Industry Canada, ICES-003, Class A
EMC Directive 89/336/EEC (CE Mark)
- EN55022, Class A
- EN55024
Australian EMC Framework (C-Tick Mark)
- AS/NZS 3548: Class A
VCCI, Class A

DRIVER SUPPORT

The LightPulse™ LP9002S is complemented by robust software support including multi-protocol (SCSI & IP) operation, enabling advanced storage area network (SAN) implementations in Solaris environments. The LP9002S Solaris driver provides the system administrator with a user interface that has the same look and feel in various environments be they PCI, cPCI or SBUS.



MANAGEMENT INTERFACE

Emulex HBAs also support the common HBA API Management Interface (FC-MI Annex A). This provides the ability to monitor, discover, and control the fabric from a management application. The management API allows the HBA to provide a common and consistent view of a Fibre Channel SAN which will significantly reduce the total cost of ownership for customers.

ORDERING INFORMATION

LP9002S-F2
embedded multi-mode optic interface



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