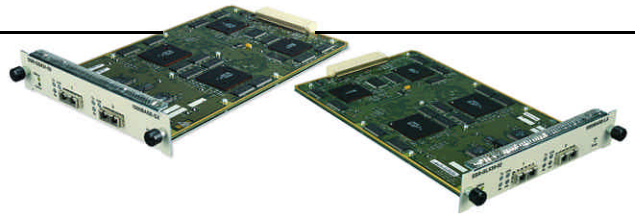
DATA SHEET

1 Port Gigabit Ethernet LH Module: RS 2000 Chassis



Overview

Riverstone Networks' Long Haul Gigabit Ethernet switch router modules for the RS 2000 chassis provide 1-port 1000 Base-LH connectivity through SC connectors. This module is ideal for long distance Gigabit Ethernet connectivity up to a distance of 70km and enables Metropolitan Area Network (MAN) build out using low-cost Gigabit Ethernet.

The RS product family is the only wire-speed Layer 2/3 and 4 switch router line proven to maintain throughput with features enabled. By implementing all features in hardware, the Riverstone architecture enhances network performance compared with software-based routers. Use Network Address Translation (NAT) to enable flexible addressing or add addresses to the available pool. Turn on Access Control Lists (ACLs) to increase security or use integrated Server Load Balancing (SLB) to improve e-commerce sessions. The Riverstone switch router enables the Service Provider to implement all these features with no loss in performance.

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Features

- Long Haul Gigabit Ethernet connectivity up to 70km
- Advanced wire-speed features including Network Address Translation (NAT) and Server Load Balancing (SLB) on every port
- Layer 4, application-aware switch routing and extensive QoS support on every port
- Wire-speed, standards-based IP routing including BGP-4, OSPF and RIP
- Full-function, standards-based Layer 2/3 and 4 switching on every port

Key Applications

- Leverage low-cost Gigabit Ethernet for Metropolitan Area Network facility interconnection over new or installed fiber
- Aggregate traffic directly from geographically distant POP sites to high-speed Internet backbones
- Provision billable IP services per user or per application
- Integrate SLA billing and monitoring packages with real-time port-level flow accounting and full RMON statistics

e.nabling Service Provider Infrastructure

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1 Port Gigabit Ethernet LH Module (RS 2000 Chassis): Technical Specifications

Technical Specifications

Module Specifications

Switch/Routing Engine:	RS ASIC Route Engine
Buffer Memory:	3 MB per port
Layer 2 Address Table Size:	48,000 entries
Layer 3/4 Table Memory:	16 MB
Layer 3/4 Table Size:	256,000 entries
MTBF (Predicted):	>200,000 hours
In-band Mgnt:	Remote SNMP and Telnet

Physical Specifications

Dimensions:	11.00" x 7.75" x 1.55" (27.94 cm x 19.68 cm x 3.94 cm)
Weight:	3.0 lbs (1.4 kg)

Environmental Specifications

Operating Temp:	+5ºC to +40ºC (41ºF to 104ºF)
Non-Operating Temp:	-30ºC to +73ºC (-22ºF to 164ºF)
Operating Humidity:	15% to 90% (non-condensing)
Power Consumption:	100 to 125 VAC Max or 200 to 250 VAC Max; 50 to 60 Hz

Agency Standards and Specifications

Safety:	Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 72/73/EEC
Electromagnetic Compatibility:	Compliant with the requirements of FCC Part 15, CSA C108.8, EN55022, VCCI V-3/93.01, EN50082-1 and 89/336/EEC

Interfaces

1 Port 1000 Base-LH with SC Connector

Fiber Type for 1000 Base-LH:	10 µm SMF
Transmit Power:	Min 0.0 dBm, Max 5.0 dBm
Receive Sensitivity:	-24 dBm
Maximum Input Power on Receiver:	-3 dBm
Link Power Budget:	33 dBm

	Fiber Type	*Range*
Operating Range: (Full Duplex Operation Only)	10 µm Fiber	10 km to 70km

Ordering Information

Part No.	Product Description
G2M-GLHA8-01	1 Port Gigabit Ethernet LH Switch Router Module

For complete ordering information, including specific modules, contact your Riverstone representative at **(408) 878-6500**. You may also visit our Website at www.riverstonenet.com.

Module is specifically for the RS 2000 chassis

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