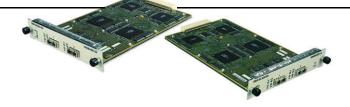
DATA SHEET

2 Port Gigabit Ethernet SX / LX Module: RS 2000 Chassis



Overview

Riverstone Networks' Gigabit Ethernet switch router modules for the RS 2000 chassis provide 2-port 1000 Base SX or 1000 Base LX connectivity through SC connectors. These modules are ideal for high-speed connectivity in Service Provider environments where high performance and full-featured capabilities are required.

The RS product family is the only wire-speed Layer 2/3 and 4 switch router product 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 of these features with no loss in performance.

2 Port Gigabit Ethernet SX / LX Module: RS 2000 Chassis

Features

- 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

- Traffic aggregation for multi-tenant unit buildings, or for content and application hosting environments
- · Provision billable IP services per user or per application
- Provision bandwidth from 1 kbps to 100 Mbps
- Integrate SLA billing and monitoring packages with real-time port-level flow accounting and full RMON statistics



e.nabling Service Provider Infrastructure

2 Port Gigabit Ethernet SX / LX Module (RS 2000 Chassis): Technical Specifications

Technical Specifications		Interfaces				Ordering Information		
Module Specifications		2 Port 1000 Base SX with SC connectors				Part No.	Product Description	
Switch/Routing RS ASIC Route Engine Engine:		2 Port 1000 Base LX with SC connectors				G2M-GSXA1-02	2 Port Gigabit Ethernet SX Switch Router Module	
0		Fiber Type for 1000 Base SX						
Buffer Memory:	3 MB per port		62.5 μm MMF 50 μm MMF		G2M-GLXA9-02	2 Port Gigabit Ethernet LX Switch Router Module		
Layer 2 Address Table Size:	48,000 entries	Transmit Power (Minimum): Receive Sensitivity:	-9.5 dBm	-9.5 dB -17 dBr			ering information, including specific modules,	
Layer 3/4 Table Memory:	16 MB	Link Power Budget:	-17 dBm 7.5 dBm	7.5 dBr			contact your Riverstone representative at (408) 878-6500. You may also visit our Website at www.riverstonenet.com.	
Layer 3/4 Table Size:	256,000 entries		MMF Fiber Type	Modal Bandwidth @ 850 nm	Range			
MTBF (Predicted):	>200,000 hours	Operating Range:	62.5 μm 62.5 μm 50 μm	160 MHz/km 200 MHz/km 400 MHz/km	2 to 275 m			
In-band Mgnt:	Remote SNMP and Telnet		50 µm	500 MHz/km				
Physical Specifica	tions	Fiber Type for 100	0 Base LX					
Dimensions:	11.00" x 7.75" x 1.55" (27.94 cm x 19.68 cm x 3.94 cm)		62.5 μm MMF	50 μm MMF	10 μm SMF			
Weight:	3.0 lbs (1.4 kg)	Transmit Power (Minimum):	-11.5 dBm	-11.5 dBm	-11.0 dBm			
Environmental Specifications		Receive Sensitivity:	-19 dBm	-19 dBm	-19 dBm			
Operating Temp:	+5°C to +40°C (41°F to 104°F)	Link Power Budget:	7.5 dB	7.5 dB	8.0 dB			
Non-Operating Temp	: -30°C to +73°C (-22°F to 164°F)		MMF	Modal Bandwidth	_			
Operating Humidity:	15% to 90% (non-condensing)	Operating Range:	Fiber Type 62.5 µm	@ 850 nm 500 MHz/km	Range 2 to 550 m			
Power Consumption:	100 to 125 VAC Max or 200 to 250 VAC Max; 50 to 60 Hz		50 μm 50 μm	400 MHz/km 500 MHz/km N/A				
Agency Standards	and Specifications							
Safety:	Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 72/73/EEC						Riverstane Astrocofics	
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				1	ran inan i	ccifically for the RS 2000 chassis	



Riverstone Networks, Inc.

5200 Great America Parkway, Santa Clara, CA 95054 USA

408 / 878-6500 or www.riverstonenet.com

© 2000 Riverstone Networks, Inc. All rights reserved. Internet Appliance and IA are registered trademarks of Cabletron Systems, Inc. All other trademarks are properties of their respective owners. All specifications are subject to change without notice.

Printed in the USA