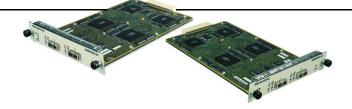
DATA SHEET

## 8 Port Fast Ethernet TX / FX Module: RS 2000 Chassis



#### **Overview**

Riverstone Networks' Fast Ethernet network connectivity for the RS 2000 chassis is provided through either an 8-port 10/100 Base TX module with SC connectors or an 8-port 100 Base FX (MMF) module with MT-RJ connectors. 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.

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#### 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

# 8 Port Fast Ethemet TX / FX Module (RS 2000 Chassis): Technical Specifications

Technical Specifications		Interfaces			Ordering Inforr	nation		
Module Specifications		8 Port 10/100 Base-TX with RJ-45 connectors			Part No.	Product Description		
Switch/Routing	RS ASIC Route Engine	8 Port 100 Base-FX (MMF) with MT-RJ connectors			G2M-HTXA2-08	8 Port Fast Ethernet 10/100 TX		
Engine:		IEEE 802.3 10 Base T Characteristics					Switch Router Module	
uffer Memory: 1 MB per port		Segment Length:	IEEE 802.3 10BaseT standards of		G2M-HFXA4-08	G2M-HFXA4-08 8 Port Fast Ethernet 100 FX (MN		
3		J J	100 m (328 ft) per segment using 24-gauge unshielded twisted pair (UTP) cable			Switch Router Module		
ayer 2 Address. able Size:	48,000 entries				For complete ordering information, including specific mo contact your Riverstone representative at <b>(408) 878-650</b> You may also visit our Website at www.riverstonenet.co			
ayer 3/4 able Memory:	16 MB	Insertion Loss:	11.5 dB between, 5.0 and 10.0 MHz, maximum. (This includes the attenuation of the cable, connectors,					
able merriory.								
yer 3/4 256,000 entries ble Size:			and patch panel.)					
able Size.		Impedance:	Between 85 a	nd 110 ohm	5			
2oS Support:	Weighted fair queuing and per	IFFF 000 0. 400	Dece TV Characteristics					
	flow rate limiting		IEEE 802.3u 100 Base TX Characteristics					
ATBF (Predicted):	>200,000 hours	Segment Length:	of 100 m (328 ft) per segment using Category 5, 24-gauge unshielded					
n-band Mgnt:	Remote SNMP and Telnet							
0			twisted pair (U	TP) cable				
Physical Specifications		Jitter:	Must not generate more than 1.4 ns					
Dimensions:	11.00" x 7.75" x 1.55" (27.94 cm x 19.68 cm x 3.94 cm)	Impedance:	Between 85 and 110 ohms					
Veight:	3.0 lbs (1.4 kg)	IEEE 802.3u 100	02.3u 100 BaseFX Characteristics					
Environmental Specifications		Segment Length: IEEE 802.3u 100BaseFX standards:						
Environmental Specifications			Multimode Fiber: 412 meters in half duplex, 2 kilometers in full duplex					
Operating Temp:	+5°C to +40°C (41°F to 104°F)		duplex, 2 kilor	neters in Iuli	duplex			
Non-Operating Temp:	: -30°C to +73°C (-22°F to 164°F)		MMF	Worst Case	Typical			
Diperating Humidity.	15% to 90% (non-condensing)		Cable Type	Budget	Budget			
		Transmitter Power:	50/125 μm 62.5/125 μm 100/140 μm	6.0 dB 9.0 dB 15.0 dB	9.0 dB 12.0 dB 18.0 dB			
Power Consumption:	100 to 125 VAC Max or 200 to 250 VAC Max: 50 to 60 Hz							
0 0	and Specifications							
Safety:	Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950,				lih		Riverstone Networks	
	IEC950 and 72/73/EEC				3 mil	*** ****	<b>35</b> 2000 🕴 🖓 🕹 🖓 🕹 😵	
Electromagnetic	Compliant with the requirements of						THE AREA DISTRICT 1	
Compatibility:	FCC Part 15, CSA C108.8, EN55022,							
	VCCI V-3/93.01, EN50082-1 and 89/336/EEC					Modules are spec	ifically for the RS 2000 chassis	



Riverstone Networks, Inc. 5200 Great America Parkway, Santa Clara, CA 95054 USA

408 / 878-6500 or www.riverstonenet.com

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