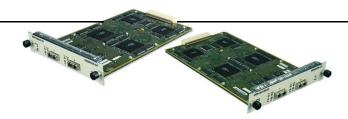
WAN Serial Interface Modules: RS 2000 Chassis

with Compression and Encryption



Overview

Riverstone Networks' 2-port and 4-port Serial interface modules extend the application-aware switch routing benefits of the RS 2000 to the WAN. The RS Serial module supports PPP, MLPPP and Frame Relay at speeds up to 8 Mbps for T1/E1 applications. Detailed accounting information can be gathered using per-PVC wire-speed RMON, enabling confirmation of committed information rates (CIRs). Hardware-based Compression (2 to 1) immediately reduces fixed costs while hardware-based Encryption adds security – both can be implemented with no impact on WAN bandwidth.

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. Additionally, congestion control is achieved across the WAN through flow rate limiting together with Weighted Random Early Discard (WRED) and Weighted Fair Queuing (WFQ). Prioritization policies can be extended from WAN to LAN environments enabling resource allocation to specific groups of users or application flows.

WAN Serial Interface Modules with Compression & Encryption: RS 2000 Chassis

Features

- Extends the benefits of wire-speed Layer 4 application-aware switch routing to the WAN
- Hardware-based Compression increases the data rate and Encryption enhances security without degrading the WAN link
- Strict adherence to PPP, MLPP and Frame Relay standards
- Unique per-PVC wire-speed RMON provides statistics to enable better understanding of network traffic and confirmation of CIRs
- Traffic shaping per PVC enables custom queuing and prioritization for enhancing Quality of Service (QoS)
- Intelligent congestion control across the WAN through flow-based rate limiting, Weighted Random Early Discard (WRED) and Weighted Fair Queuing (WFQ)

Key Applications

- Enable rapid deployment of transparent LAN Services in Metropolitan Area Network environments
- Aggregate existing T1 / T3 customers without loss of performance
- · Maximize revenue by provisioning WAN bandwidth into fixed increments for billing based on usage
- Integrate SLA billing and monitoring packages with real-time port-level flow accounting and full RMON statistics



WAN Serial Interface Modules (RS 2000 Chassis): Technical Specifications

with Compression and Encryption

Compatibility:

Technical Specifications Module Specifications		Interfaces		Ordering Information		
		Serial Connector:	60-pin D shell supporting	Part No.	Product Description	
Switch/Routing	RS ASIC Route Engine		2 serial ports per connector	G2M-SERAC-02	2 Port Serial Interface Module	
Engine:		Line Rate:	Up to 8 Mbps	G2M-SECAC-04	4 Port Serial Interface Module	
DRAM Supported: 32 MB		RFCs/MIB and IEEE Standards			with Compression	
Maximum Link Speed:	8 Mbps per port	RFC No. RFC 1490	Title Multiprotocol Interconnect Over Frame Relay	G2M-SCEAC-04	4 Port Serial Interface Module with Compression and Encryption	
Cyclic Redundancy Check (CRC) :	16-bit	RFC 1471	Managed Objects for the LCP of PPP	contact your River	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.	
Maximum PVC/DLCI Support:	200 per port	RFC 1473	Managed Objects for the IP NCP of PPP			
Maximum Compression Histories:	64 per line card	RFC 1661	PPP			
		RFC 1662	PPP in HDLC- like Framing			
Encryption Support:	DES, Triple-DES, SHA-1, RC4 & with 168-bit keys	RFC 1332	PPP Internet Protocol Control Protocol (IPCP)			
MBTF (Predicted):	>200,000 hours	RFC 1548	The Point-to-Point Protocol (PPP)			
WAN Interface Types	s: EIA/TIA-612/613	RFC 1570	PPP LCP Extensions			
Physical Specifications		RFC 1638	PPP Bridging Control Protocol (BCP)			
Dimensions:	7.5" x 11" (19.05 cm x 27.94 cm)	RFC 1990	PPP Multi-Link Protocol			
Weight:	1 lb. (0.45 kg)	RFC 1552	The PPP Internetwork Packet Exchange Control Protocol (IPXCP)			
Environmental Sp	ecifications					
Operating Temp:	0°C to +40°C (32°F to 104°F)					
Non-operating Temp	o: -30°C to +90°C (-22°F to 194°F)					
Operating Humidity:	5% to 95% (non-condensing)					
Power Consumption	: 100 to 125 VAC Max or 200 to 250 VAC Max; 50 to 60 Hz					
Agency Standards	s and Specifications				and the second of the second o	
Safety:	Meets the requirements of UL19 EN60950, EC950 and 72/73/EEC.		3		Riverstone Natworks	
Electromagnetic	Compliant with the requirements of		1	*** ****	TO THE REPORT NAME OF TAXABLE PARTY.	



Modules are specifically for the RS 2000 chassis



FCC Part 15, CSA C108.8, EN55022,

VCCI V-3/93.01, EN50082-1 and

89/336/EEC.

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