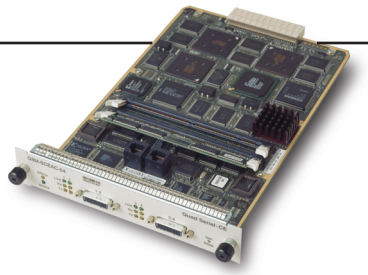
DATA SHEET

4 Port WAN Serial Interface Modules with Compression & Encryption: RS 8000/8600 Chassis



Overview

Riverstone Networks' 4 port serial interface modules extend the application-aware switch routing benefits of the RS 8000 and 8600 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.

** Compression capability is available with software version 3.0 and above*
*** Encryption is available only for sales in the US and Canada*

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Features

- Unique per-PVC wire-speed RMON provides statistics to enable better understanding of network traffic and confirmation of committed information rates (CIRs)
- Traffic shaping per PVC enables custom queuing and prioritization for enhancing Quality of Service
- 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 metro 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

e.nabling Service Provider Infrastructure

River STONE NETWORKS™

4 Port WAN Serial Interface Modules with Compression & Encryption:
RS 8000/8600 Chassis Technical Specifications

Technical Specifications

Module Specifications

Switch/Routing Engine	RS ASIC Route Engine
DRAM supported	32 MB
Maximum Link Speed	8 Mbps per port
Cyclic Redundancy Check (CRC)	16-bit
Maximum PVC/DLCI Support	200 per port
Maximum Compression Histories	64 per line card
Encryption Support	DES, Triple-DES, SHA-1, RC4 & MD-5 with 168-bit keys

Physical Specifications

Dimensions:	8.5 x 11 inch (21.59 cm x 27.94 cm)
Weight:	2 lbs. (0.91 Kg)

Environmental Specifications

Operating Temp:	+0º to +40ºC (32º to 104ºF)
Non-operating Temp:	-40º to +70ºC (-40º to 158ºF)
Operating Relative Humidity:	10% to 90% (non-condensing)
Non-operating Relative Humidity:	5% to 95% maximum (non-condensing)
Altitude, Operating and Non-operating:	10,000 ft (3,000 m) maximum
Shock and Vibration:	GR63
Power Consumption:	100 to 125 VAC Max or 200 to 250 VAC Max, 50 to 60 Hz

Agency Standards and Specifications

Safety:	Certified 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, EN50082-1, and 89/336/EEC

Interfaces

Serial Connector	60-pin D shell supporting 2 serial ports per connector
Line Rate	Up to 8 Mbps

RFCs/MIB and IEEE Standards

RFC 1490	Multiprotocol Interconnect over Frame Relay
RFC 1471	Managed Objects for the LCP of PPP
RFC 1473	Managed Objects for the IP NCP of PPP
RFC 1661	PPP
RFC 1662	PPP in HDLC- like Framing
RFC 1332	PPP Internet Protocol Control Protocol (IPCP)
RFC 1548	The Point-to-Point Protocol (PPP)
RFC 1570	PPP LCP Extensions
RFC 1638	PPP Bridging Control Protocol (BCP)
RFC 1990	PPP Multi-Link Protocol
RFC 1552	The PPP Internetwork Packet Exchange Control Protocol (IPXCP)

Ordering Information

Part No.	Product Description
G8M-SECAC-04	4 Port Serial interface module with Compression
G8M-SCEAC-04	4 Port Serial interface module with Compression and Encryption

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.

Modules are specifically for the RS 8000/8600 chassis

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