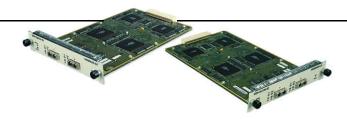
## 2 Port WAN HSSI Module: RS 2000 Chassis



### Overview

Riverstone Networks' high-speed serial interface (HSSI) module extends the application-aware switch routing benefits of the RS 2000 family to the WAN. The RS HSSI interface supports PPP, MLPPP and Frame Relay at speeds up to 52 Mbps for T3/E3 applications. Detailed accounting information can be gathered using per-PVC wire-speed RMON, enabling confirmation of committed information rates (CIRs).

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 based 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.

## 2 Port WAN HSSI Module: RS 2000

Chassis

#### **Features**

- Extends the benefits of wire-speed Layer-4 application-aware switch routing to the WAN
- 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 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



# 2 Port WAN HSSI Module (RS 2000 Chassis): Technical Specifications

#### **Technical Specifications Ordering Information** Interfaces 50-pin connector supporting Part No. **Product Description Module Specifications** HSSI Connector: one HSSI interface 2 Port HSSI interface module Switch/Routing RS ASIC Route Engine G2M-HSIAC-02 Engine: Line Rate: Up to 8 Mbps SYS-HSSI-CAB HSSI Cable DRAM Supported: RFCs/MIB and IEEE Standards For complete ordering information, including specific modules, contact your Riverstone representative at (408) 878-6500. STS-1 or 52 Mbps per port RFC No. Maximum PPP Internet Protocol Control You may also visit our Website at www.riverstonenet.com. Link Speed: RFC 1332 Protocol (IPCP) Cyclic Redundancy Check (CRC): RFC 1471 Managed Objects for the LCP of PPP RFC 1473 Managed Objects for the IP NCP Maximum PVC/DLCI Support: 200 per port MBTF (Predicted): >200.000 hours RFC 1490 Multiprotocol Interconnect over Frame Relay WAN Interface Types: EIA/TIA-612/613 RFC 1548 The Point-to-Point Protocol (PPP) **Physical Specifications** RFC 1552 The PPP Internetwork Packet Dimensions: Exchange Control Protocol (IPXCP) (21.59 cm x 27.94 cm) RFC 1570 PPP LCP Extensions Weight: 2 lb. (0.91 kg) RFC 1638 PPP Bridging Control Protocol (BCP) **Environmental Specifications** 0°C to +40°C (32°F to 104°F) Operating Temp: RFC 1661 Non-operating Temp: -30°C to +90°C (-22°F to 194°F) RFC 1662 PPP in HDLC-like Framing Operating Humidity: 5% to 95% (non-condensing) RFC 1990 PPP Multi-Link Protocol

## **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



Module is specifically for the RS 2000 chassis



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