



Overview

The high-performance 2-port ATM module is part of an adaptable uplink architecture that is common to the Riverstone Networks' RS 8000 and 8600 platforms. The fully integrated design supports the most complete range of technology and media options in the industry. This scalable framework ensures full cross-platform compatibility and enables the smoothest possible migration as a customer's technology and interface requirements for backbone connectivity evolve.

Each of the two modular slots accepts physical interface cards for T-3/E-3 and OC-3c (MMF and SMF). With the ATM virtual circuits (VCs) configured as logical interfaces, all the benefits of switch routers can be extended to the ATM WAN. Access Control List (ACL)-based filtering, Layer 4 application-aware switching, QoS and Server Load Balancing are integrated into the base module.

2 Port OC-3c ATM Switch Router Module: RS 8000 / 8600 Chassis

Features

- High performance ATM module extends the available WAN technology for the industry leading switch router
- Extensive range of ATM physical interface options providing flexibility with interchangeable DS3/E3 and OC-3c cards
- Support for 16 Virtual Paths (VPs) and 4,096 Virtual Circuits (VCs) with per VC traffic shaping
- Support for RFC 1483 encapsulation for routed and bridged protocols over PVCs with the support for RFC 2225 classical IP
- Fully SNMP manageable with support for AToM MIB and AToM MIB extensions

Key Applications

- Enables connectivity of ATM and Gigabit Ethernet backbones
- Provides guaranteed transport of voice, video and data over Metropolitan Area Networks
- Provides traffic shaping (UBR, VBR, CBR) hardware-based rate limiting to create tiered services for offering customized SLAs
- Enables effective throughput for inter-POP connections with support for Classical IP (frames up to 9,192 bytes)



2 Port OC-3c ATM Switch Router Module: RS 8000 / 8600 Chassis

Technical Specifications

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Module Specifications

Max. # of VCs/VPs:	16 VPs per port, 4K VCs per port, bi-directional
AAL Type:	5
Traffic Classes:	UBR, paced UBR, nrt-VBR, CBR
Traffic Shaping:	Per VC and VP traffic shaping configurable on every port
Statistics:	Per-VC ingress and egress statistics maintained
Encapsulations:	LLC/SNAP and VC mux routed packet encapsulation
MTBF (Predicted):	>200,000 hr.

Physical Specifications

Interfaces:	2 port ATM OC-3c module
Dimensions:	11.00" x 7.75" x 1.55" (27.94 cm x 19.68 cm x 3.94 cm)
Weight:	3.0 lbs. (1.4 kg)

Environmental Specifications

Operating Temp:	+0° to +40°C (32° to 104°F)
Non-Operating Temp:	-40° to +70°C (-40° to 158°F)
Operating 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

Interfaces

Part Number	AIC-67	AIC-77	AIC-21	AIC-29IR
Port Density	1 DS-3/T3	1 E-3	1 OC-3c MMF	1 OC-3c SMF-IR
Line Rate	45 Mbps	34 Mbps	155 Mbps	155 Mbps
Framing	C-bit, M23	ITU G.832, ITU G.751	SONET OC-3 SDH STM-1	SONET OC-3 SDH STM-1
Connector	BNC	BNC	SC	SC
Wavelength	--	--	1310 nm	1310 nm
Transmit Power (min dbm)	--	--	-20	-15
Receive Power (min dbm)	--	--	-31	-28
Max. Reach	137 m	200 m	2 km	15 km

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

RFCS/MIBs

RFC 1483	Routed and bridged encapsulation over PVC
RFC 2225	Classical IP over ATM (CLIP)
RFC 1585	SONET
RFC 2495	DS-1
RFC 2496	DS-3

Ordering Information

Part No.	Product Description
G8M-AO3BM-02	2 port ATM base module accepts Physical Interface Cards for connectivity
AIC-67	1 port DS-3/T3 Physical Interface Card (Coax)
AIC-77	1 port E-3 Physical Interface Card (Coax)
AIC-21	1 port OC-3c MMF Physical Interface Card
AIC-29IR	1 port OC-3c SMF-IR Physical Interface Card

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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