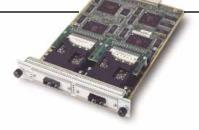
DATA SHEET

2-Port OC-3c ATM Switch Router Module: RS 3000 Chassis



Overview

Metropolitan Service Providers (MSPs) must be able to move quickly to capture customers and provide IP-based services in the new Metro Business Internet. Versatile connectivity and comprehensive traffic shaping enable MSPs to rapidly light up metro buildings and convert raw optical and electrical bandwidth into profitable services.

Riverstone Networks' high-performance ATM module for the RS 3000 Optical Metro Access Router supports up to two physical interface cards with a choice of T-3/E-3 and OC-3c (MMF and SMF) interfaces offering a wide range of multi-rate services. Such versatile connectivity means MSPs can gain crucial first-mover advantage in deployings services to metro customers over existing ATM cell-based infrastructures. The module enables MSPs to deliver highly differentiated services directly to the metro access edge using a combination of advanced traffic engineering features such as hardware-based rate limiting, traffic prioritization and filtering, hardware-based accounting, policy-based routing, server-load balancing, and MPLS traffic grooming.

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Features

- Transparent LAN Services allow any RS 3000 Ethernet circuits to be mapped across ATM VCs thus extending Ethernet circuits across the metro area
- Extensive range of interchangeable ATM physical interface options provide flexibility and upgrade ability for service provider customers
- Support for 16 Virtual Paths (VPs) and 4,096 Virtual Circuits (VCs) per port with per-VC traffic shaping allows QoS policies to be implemented using ATM traffic classes
- Support for RFC 1483 encapsulation for bridged and routed protocols over PVCs with the support for RFC 2225 classical IP allows interoperation with existing ATM backbone networks
- Fully SNMP manageable with support for AToM MIB (RFC 1695) and AToM MIB extensions allows integration with standard ATM management platforms

Key Applications

- Provide transparent LAN and virtual leased line type of services by Service Providers with ATM backbone
- Guaranteeing the transport of voice, video, and data over Metropolitan Area Networks
- Creating tiered services with customized SLAs using traffic shaping (UBR, VBR, CBR), hardware-based rate limiting, and QoS policies

e.nabling Service Provider Infrastructure[™]



2-Port OC-3c ATM Switch Router Module: RS 3000 Chassis **Technical Specifications**

Technical Specifications Module Specifications		Interface Specifications				
		Part Number	AIC-67	AIC-77	AIC-21	AIC-29IR
Max. number of		Port Density	1 DS-3/T3	1 E-3	1 OC-3c MMF	1 OC-3c SMF-IR
VCs/VPs:	16 VPs per port, 4K VCs per port, bi-directional	Line Rate	45 Mbps	34 Mbps	155 Mbps	155 Mbps
AAL type:	AAL5	Framing	C-bit, M23	ITU G.832, ITU G.751	SONET OC-3	SONET OC-3
Traffic classes:	UBR, paced UBR, nrt-VBR, CBR	Connector	BNC	BNC	SC	SC
Traffic shaping:	Per VC and VP traffic shaping	Wavelength	_	_	1310 nm	1310 nm
Statistics:	configurable on every port Per-VC ingress and egress statistics maintained	Transmit Power (min dbm)	_	_	-20	-15
Encapsulations:	LLC/SNAP and VC mux routed packet	Receive Power (min dBm)	_	-	-31	-28
MTBF (predicted):	encapsulation >200,000 hours	Max. Reach	137 m	200 m	2 km	15 km

Physical Specifications

Interfaces:		2-port ATM OC-3c module		
	Dimensions:	11" x 7.75" x 1.55" (27.94 cm x 19.68 cm x 3.94 cm)		
	Weight:	3 lbs. (1.4 kg)		
	Environmental Spe	cifications		
	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		
	0	0.000		

Shock and vibration: GR63

Power Requirements

AC Power Input voltage:	100-240 VAC
Input current:	3.0 to 1.5 A
Frequency:	50 to 60 Hz
DC Power Input voltage:	-48 to -60 VDC
Input current:	8.0 A
RFCs/MIBs	
RFC 1483	Routed and bridged encapsulation over PVC
RFC 1585 RFC 1695 RFC 2225 RFC 2495 RFC 2496	SONET ATOM MIB Classical IP over ATM (CLIP) DS-1 DS-3

Ordering Information

Part No.	Product Description
G3M-A03BM-02	2-port ATM base module with 2 slots for Physical Interface Cards
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. or visit our Website at www.riverstonenet.com.



Module is specifically for the RS 3000 chassis



Riverstone Networks, Inc.

5200 Great America Parkway, Santa Clara, CA 95054 USA

408 / 878-6500 or www.riverstonenet.com

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