OC-12c ATM Module: RS 8000 / 8600 Switch Routers

Overview

The OC-12c module for the RS 8000 and RS 8600 platforms is one of the highest performing ATM uplinks in the industry. The feature-rich module supports a huge number of VCs up to 64K. Automatic Protection Switching on the module ensures link-level redundancy. The OC-12c module supports PPP over ATM allowing a large number of DSL circuits to be terminated. With the support for PPP authentication, using PAP/CHAP with Radius and other servers makes this an attractive alternative to the dedicated and expensive solutions in the market. With ATM OC-12c modules installed, the RS 8x00 platform becomes the industry's highest density PPP termination platform. Coupled with subscriber management services, including Radius and TACACS+ support, the RS 8x00 becomes the highest performance DSL aggregation platform.

The OC-12c module provides a large pipe for connecting networks of switch routers through an ATM cloud. For the metro service providers this powerful OC-12c module could bridge the ATM and Gigabit Ethernet infrastructures. ISPs could connect to their next tier ISPs using this ATM module. ATM OC-12c module could be used in the core for aggregating multiple edge switches connected using smaller ATM connections. For DSL networks, OC-12c module could terminate a large number of circuits from CPE devices using PPP over ATM, RFC 1483 bridged or routed encapsulations.

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Features

- High performance ATM module interconnects GigE and ATM infrastructure at wirespeed
- Supports a large number of VCs — up to 64K per module
- Industry's highest density PPP over ATM with authentication for terminating 32K PPP sessions per module
- Turns the RS 8x00 into a DSL service-aggregation platform
- Automatic protection switching provides link redundancy
- On-board processor and high performance SAR provide line-rate performance
- Supports 1483 bridged and routed encapsulations
- Provides per-VC shaping
- Uniquely maps IP QoS to ATM using VC groups providing end-to-end QoS support

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Technical Specifications

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Max number of VCs:	64K
Number of interfaces:	1 + 1 ((Link Redundancy)
AAL type:	AAL 5
Traffic classes:	UBR, paced UBR, rt-VBR, nrt-VBR, CBR
Traffic shaping:	Per-VC shaping
Statistics:	Per-VC ingress and egress statistics maintained

Part No:	**G8M-A12B1-02**	**G8M-A12B9-02**
Port Density:	1+1 MMF OC-12c	1+1 SMF OC-12c
Connector:	SC	SC
Wavelength:	1300nm	1300nm
Transmit Power:	-19 dbm	-15 dbm
Receive Power:	-26 dbm	-28dbm
Max Reach:	500m	15km

Environmental Specifications

Operating Temp:	+0° to +40°C (32° to 104°F)
Non-Operating Temp:	-40° to +70°C (-40° to 158°F)
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:	EN60068 (IEC68)

Agency Standards and Specifications

Safety:	Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, 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

Protocols/Mibs Supported

RFC No.	**Title**
RFC 1332	IPCP
RFC 1334	PAP
RFC 1483	Bridged and routed encapsulation over PVC
RFC 1552	IPXCP
RFC 1661	Point-to-Point Protocol
RFC 1994	CHAP
RFC 2225	Classical IP over ATM (CLIP) over PVC
RFC 2364	PPP over AAL5
MTBF (predicted)	>200,000 hours

Ordering Information

Part No.	**Product Description**
G8M-A12B1-02	ATM OC-12c multi-mode fiber module
G8M-A12B9-02	ATM OC-12c single-mode fiber module

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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