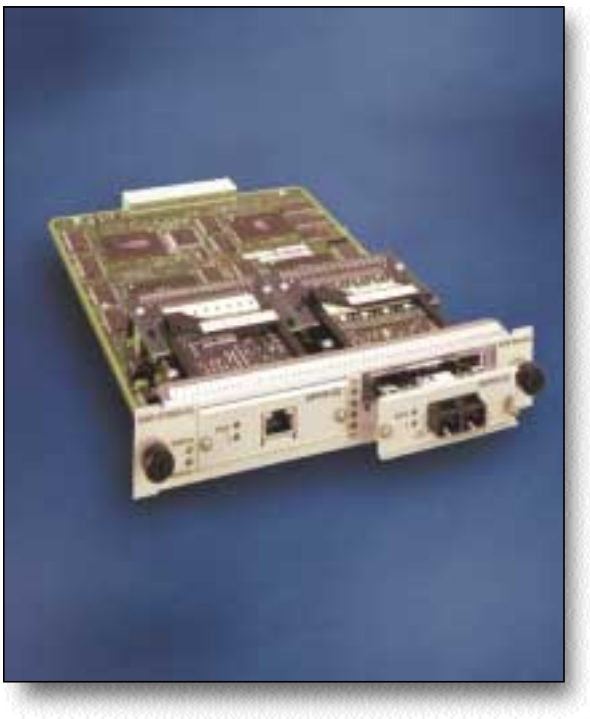
T-SERIES SSR-ATM29-02 OC-3C ATM MODULE FOR THE X-PEDITION™ 8000/8600

Data Sheet



- **Seamless ATM and LAN integration**
  - — Provides high-performance ATM and LAN switch routing in a single chassis
  - — Wire-speed, standards-based IP routing; standards-based, full-function Layer 2, 3 and 4 switching, and Layer 4 application switching on every port
- **T-Series enhanced hardware support**
  - — Local hardware routing tables support more than 200,000 routes on each module
  - — Jumbo frames support up to 64,000 bytes
  - — Provides port rate limiting and aggregate rate limiting
- **Guaranteed Quality of Service**
  - — Extensive QoS support allows allocation of bandwidth or assignment of priority based on applications
  - — Map and extend QoS features through ATM
- **Standards-based support**
  - — Supports RFC 1483 PVC encapsulation for routed protocols and RFC 2225 Classical IP
- **Extensive interface options**
  - — Broad media support: T-1/E-1, T-3/E-3 and OC-3c (MMF, SMF and UTP)
- **Channel and path switching**
  - — 4,096 virtual circuits per port; 16 virtual paths per port
  - — Per VC and VP traffic shaping
- **SNMP manageable**
  - — Supports AToM MIB, AToM MIB extensions

Seamlessly Extend Your Enterprise to an ATM Backbone

The SSR-ATM29-02 provides an uplink from the X-Pedition switch router 8000/8600 to an ATM backbone, ensuring the smoothest possible migration.

Modular, High-Performance ATM/LAN Integration

Ideal for providing routed IP connectivity to an ATM backbone, the T-Series SSR-ATM29-02 is a modular, high-performance ATM interface for the X-Pedition 8000/8600 switch router. The module provides an ATM uplink from the X-Pedition to an ATM backbone via two modular slots. Each slot accepts APHYs for T-1/E-1, T-3/E-3 and OC-3c (MMF, SMF and UTP). Importantly, these flexible ATM uplinks extend the advanced Layer 3/4 QoS and security features from the Gigabit Ethernet environment to standards-based ATM networks. Each PVC on the ATM module can be configured as a routed IP interface. The ATM backbone provides connectivity from one routed backbone to another. Traffic shaping, including CBR, UBR and VBR, can be configured on each PVC.

Part Number	APHY-67	APHY-77	APHY-82	APHY-92	APHY-21	APHY-29IR	APHY-22
Port Density	1 DS-3/T3	1 E-3	1 Data	1 Data	1 OC-3c MMF	1 OC-3c SMF-IR	1 OC-3c UTP
Line Rate	45 Mbps	34 Mbps	1.544 Mbps	2.048 Mbps	155 Mbps	155 Mbps	155 Mbps
Framing	C-bit, M23	ITU G.832, ITU G.751	ITU G.804	ITU F.704	SONET OC-3 SDH STM-1	SONET OC-3 SDH STM-1	SONET OC-3 SDH STM-1
Connector	BNC	BNC	RJ45	RJ45	SC	SC	RJ45
Cable	--	--	--	--	62.5/125 um	9/125 um	--
Wavelength	--	--	--	--	1300 nm	1300 nm	--
Transmit Power (min dbm)	--	--	--	--	-20	-15	--
Receive Power (min dBm)	--	--	--	--	-31	-28	--
Max. Reach	450 ft	200 m	655 ft	200 m	2 km	15 km	100 m

ENTERASYS NETWORKS

X-PEDITION

TECHNICAL SPECIFICATIONS

Switching Engine
Custom ASIC

Buffer Memory
16 MB per port

Layer 2 Address Table Size
256,000 entries

Layer 3/4 Table Memory
16 MB

Layer 3/4 Table Size
256,000 entries

Max. # of VCs/VPs
16 VPs per port
4K VCs per port, bi-directional
AAL Type
5

Traffic Classes
UBR, nrt-VBR, rt-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

In-band Management
Remote SNMP via CoreWatch

PHYSICAL SPECIFICATIONS

Interfaces
SSR-ATM29-02: SSR 8000/8600 2-port base module

Dimensions
27.94 cm (11.00") x 19.68 cm (7.75") x 3.94 cm (1.55")

Weight
1.4 kg (3.0 lbs)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature
+5° C to +40° C (41° F to 104° F)

Non-Operating Temperature
-30° to +73° C (-22° F to 164° F)

Operating Humidity
15% to 90% (non-condensing)

Power Consumption
100 to 125 VAC Max or 200 to 250 VAC Max
50 to 60 Hz

AGENCY STANDARDS AND SPECIFICATIONS

Safety
Meets the requirements of UL1950, CSA C22.2 No. 950, EN60950, IEC950 and 72/73/EEC

Electromagnetic Compatibility (EMC)
Compliant with the requirements of FCC Part 15, CSA C108.8, EN555022, VCCI V-3/93.01, EN50082-1 and 89/336/EEC

Protocols
LAN Protocols: RFC 2225 Classical IP over ATM (CLIP)
RFCs/MIBs
RFC 1483 Multiprotocol Encapsulation over ATM Adaptation Layer 5
RFC 1595 SONET MIB
RFC 1695 ATM MIB
RFC 2495 DS1 MIB
RFC 2496 DS3 MIB
RFC 2225 Classical IP over ATM

ORDERING INFORMATION

SSR-ATM29-02
2-port X-Pedition 8000/8600 ATM base module; accepts physical modules for connectivity

APHY-67
1-port DS-3/T3 physical module (coax) for the SSR-ATM29-02

APHY-77
1-port E-3 physical module (coax) for the SSR-ATM29-02

APHY-82
1-port data physical module (UTP) (requires a CSU/DSU) for the SSR-ATM29-02

APHY-92
1-port data physical module (UTP) (requires a CSU/DSU) for the SSR-ATM29-02

APHY-21
1-port OC-3c MMF physical module for the SSR-ATM29-02

APHY-29IR
1-port OC-3c SMF-IR physical module for the SSR-ATM29-02

APHY-22
1-port OC-3c UTP physical module for the SSR-ATM29-02

Lit. #9012470 4/01

ENTERASYS NETWORKS