

Compact SAE STM-16 Multirate 1+1

Description

The **Compact SAE STM-16 Multirate 1+1** Optical adapter belongs to the new generation of optical adapters Telnet Redes Inteligentes Compact SAE. This family of modules represents the most advanced range and best performance TELNET RI Optical Adapters.

Among the most important characteristics of the Compact SAE family highlights the implementation of advanced switching criteria and maintenance of statistics. Both features have been developed on programmable ASIC. This technology enables the Compact Optical SAE adapter to process and analyze traffic at line speed of service without penalty, reporting statistics to the operator.

Compact SAE STM-16 Multirate 1+1 optical has two optical interfaces, the client and the operator, both based on modular removable technology (SFP) and can be configured with SFP modules of different reaches depending on the application. Operator interface has two optical ports for redundancy applications available depending on the route (applications 1+1 and 1+0).

Once defined a default route, it is possible to establish the switching criteria -or set of them- that the Compact SAE STM-16 Multirate 1+1 Optical adapter take into account before placing traffic on the alternative route. The options available are as follows:

- LOS (Lost of signal). Loss of signal at the RX port of the optical transceiver.
- Optical power received at the RX port of the optical transceiver defined below.
- Alarms RS TIM, MS-AIS and RDI
- Exceeding a threshold of block error rate (calculated by the bytes B1 and B2).

The response time to such events will never be greater than 50 ms.

In addition, Compact SAE STM-16 Multirate 1+1 has the following policies of redundancy in case of fail of the main fiber: reversible switching (back to the main route in recovery), non-reversible (staying in the switched path to new switching event on the route) and forced commutation (always same path, independent of the events).



Features

1+1 Protection Network Interface.

Optical adapter with three SFP modular interfaces that allows the protection of the network route in SDH paths .

Advanced switching criteria.

Based on (signal loss), loss of power at the reception and MS-AIS, RDI, RS TIM, errors (B1, B2).

Traffic statistics and errors.

Compact SAE maintains statistical records of traffic received, transmitted and errors occurred as ITU-T G.826 .

Multirate STM-16/4/1.

Allows limiting the speed of the circuit hierarchy to STM-4 or STM-1 only.

Loops Support.

Allows the realization of loops in the user interface and network interfaces.

Digital Diagnostics.

Supports additional without diagnostic digital instrumentation. From the management console you can monitor the optical power of the circuit, the bias voltage and temperature.

Hot insertion and extraction.

This module is compatible with the chassis TriSAE and MetroSAE, supporting the insertion and extraction in hot.

General features

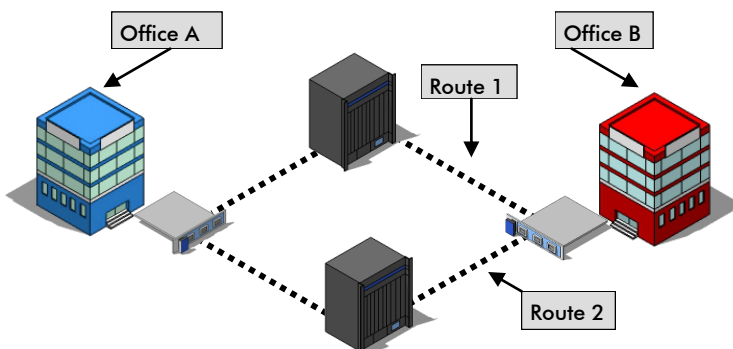
- 1+1 Protection Network Interface
- 3 SFP modular interfaces
- LC-PC connectorization.
- Advanced configurable switching criteria
- Policies of redundancy: reversible switching, non-reversible and forced commutation
- Response time never greater than 50 ms
- Traffic and errors statistics
- Allows the realization of loops in the client and operator interfaces
- Supports digital diagnostic without additional instrumentation
- Hot insertion and extraction
- Supported chassis: TriSAE and MetroSAE

Applications

- Advanced protection of SDH STM-16/4/1 circuitry.
- Demarcation point between operator's SDH and DWDM services network and customer.
- Integration of SDH services in CWDM and DWDM networks.

Optical SFP modules options

	I.16 2Km	S.16.1 15Km	S.16.2 15Km	L.16.1 40Km	L.16.2 80Km	CWDM- DWDM
Emitted power (Pout)	-10dBm	-5 dBm	-5 dBm	-2 dBm	-2 dBm	Consult available lambdas and dynamic ranges
Sensibility (S)	-18dBm	-18 dBm	-18 dBm	-27 dbm	-28 dBm	
wavelength	1310nm	1310nm	1550 nm	1310 nm	1550 nm	



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