

FO-4E1T1

E1/T1 AND ETH MULTIPLEXER

Characteristics

- Fiber optic multiplexer
- Transports 4 interfaces, E1 G703 2 Mbps or T1 1,544 Mbps
- Transports Ethernet traffic
- 2x Ethernet 10/100BT interfaces
- Fiber optic interface with SFP module
- 1+1 protection of the fiber link
- Transparent and independent E1/T1 clocks in the range of +/- 200 ppm
- Filtering Ethernet bridge with QoS control
- Intuitive management with clear menus
- IP, SNMP, Telnet, FTP management
- MXCFG GUI software for supervision and configuration management
- Wide choice of optical SFP modules with up-to 120 km budget
- V54 test loop
- Metallic enclosure with AC, DC 48V or DC 24V supply options
- Rack card for the AMS4 and AMS16 chassis

Option

- Alarm relay

E1/T1 AND ETHERNET OPTICAL LINK

The FO-4E1T1 is a fiber optic modem that multiplexes 4x E1 or T1 and 2x Ethernet 10/100BT interfaces.



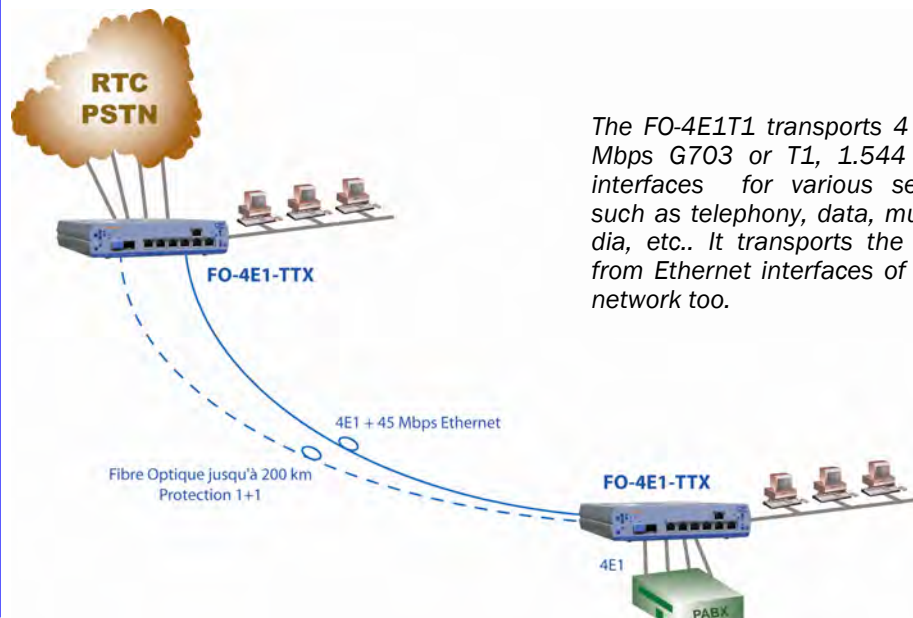
The FO-4E1T1 is a fiber optic multiplexer of 4x E1, 2 Mbps G703 or 4x T1, 1.544 Mbps interfaces, and an Ethernet / IP traffic.

This fiber optic modem transports the 4x E1/T1 interfaces with a full clock transparency and independence with a minimum excursion of 200 ppm. It is aimed at connected PBX, Base Stations, ISDN T2, and any E1/T1 based equipment.

The fiber optic interface of the FO-4E1T1 consists in two SFP slots. Single (WDM) or dual fiber modules suit any connection requirement for distances up-to 120 km. The FO-4E1T1 provides a 1+1 protection of the fiber link if two SFP modules are installed in the equipment.

The FO-4E1T1 provides two 10/100BT

Ethernet ports for both transporting the network traffic and managing the equipment through TCO-IP, SNMP protocols. The FO-4E1T1 acts as a filtering bridge with Quality of Service control based on the DSCP traffic class of the IP frames. The FO-4E1T1 is proposed as a metallic stand alone unit with a choice of 110/230V AC or 48/24 V DC supplies. Two units can be installed in a 19" bay with a 1U high kit. The FO-4E1T1 rack card can also fit in a CXR 19" chassis, the 1U AMS4 or 4U AMS16 with redundant supplies and centralized SNMP management.



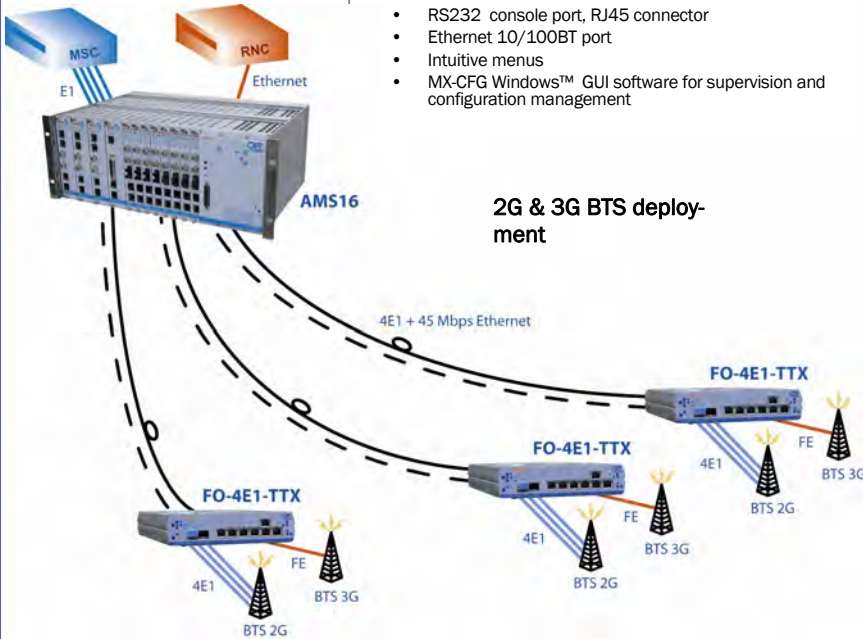
The FO-4E1T1 transports 4 E1, 2 Mbps G703 or T1, 1.544 Mbps interfaces for various services such as telephony, data, multimedia, etc.. It transports the traffic from Ethernet interfaces of the IP network too.

4xE1/T1 and Ethernet over Fiber

Wide choice of SFP modules
Single (WDM) or Dual fiber
Distance up to 120 km

- SFP-STM1-MM-LC : multimode, 2km
- SFP-STM1-SM20-LC : 20 km
- SFP-STM1-SM40-LC : 40 km
- SFP-STM1-SM60-LC : 60 km
- SFP-STM1-SM60-W13-LC : WDM, 1310 nm TX, 60 km
- SFP-STM1-SM60-W14-LC : WDM 1490 nm TX, 60 km

Many other SFP optical module possibility : contact your CXR agent !

**2G & 3G BTS deployment****Management**

- RS232 console port, RJ45 connector
- Ethernet 10/100BT port
- Intuitive menus
- MX-CFG Windows™ GUI software for supervision and configuration management

E1 Interfaces

- G703 E1, 2.048 Mbps
- Coding : HDB3
- 120 Ohms impedance, RJ45 / RJ48c connector
- 75 Ohms impedance, BNC connectors
- Clock transparent and independent : +/- 200 ppm
- G747 and M13 multiplexing
- Long / short Haul sensibility : -12 or -40 dB

T1 Interfaces

- T1, 1,544 Mbps
- Line Build Out : DSX-1 and CSU
- 100 Ohms impedance, RJ45/RJ48c connector
- Short/long haul sensibility : -12 / -36 dB
- Coding : B8ZS or AMI
- Transparence et indépendance des horloges : +/- 200 ppm



- Critical event log
- Statistics and diagnostics des of the E1/T1, Ethernet and fiber optic interfaces
- Dry contact alarm relay option
- IP protocols : ftp, telnet, snmp
- Management card of the AMS16 chassis
- Loop test : V54, B2, B3
- Light indicators :
 - In service
 - Test
 - Fiber optic interface status
 - LOS and AIS of the E1/T1 interfaces
 - Link/Activity and speed of the Ethernet interfaces
 - DTR of the RS232 console port

General characteristics

- Size : 287 x 175 x 41 mm / 11.3 x 6.9 x 1.6 "
- Weight : 1,4kg / 3.1 lb
- Power consumption : 12 W
- Mains supply : 90-240 Vac, 50/60 Hz, IEC 320 connector
- 48Vdc supply : 36 72 Vdc, removable screw lock with clip lock
- Operating temperature : -10 to +60 °C / 14 to 140 F
- Hygrometry : 10 – 90%, non condensing
- MTBF = 120,000 H
- Safety : EN60950
- EMC : EN55022, EN55024
- CE : ROHS, DEEE, REACH
- Packaging : standalone metallic enclosure or rack-mount card for 19" chassis



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SPECIFICATIONS**Fiber Optic Interface**

- 2x slots for SFP pour modules
- 1+1 protection of the optical link
- SFP modules, dual or single (WDM) fiber
- Optical budget up-to 120 km
- Wide choice of fiber patch cable, LC, SC, FP/PC, ST

Ethernet interfaces

- 2x IEEE 802.3, 10/100BT interfaces
- Auto MDI/MDIX
- Automatic speed and duplex detection
- Filtering bridge, 802.1D
- Throughput : 45 Mbps
- QoS control on DSP field, 802.1P
- Traffic prioritization : 4 transmission queues
- 2,000 Ethernet address memory
- Frame size : 1784 bytes

PRODUCT RANGE

- FO-4E1T1-RJ-I** : standalone optic multiplexer, RJ45 connector, 110/230V mains supply
- FO-4E1T1-RJ-C** : standalone optic multiplexer, RJ45 connector, 48Vdc DC supply
- FO-4E1T1-RJ-R** : optic multiplexer, RJ45 connector, rack card for the carte AMS4 / AMS16 chassis
 Fits 1 slot of the AMS4/1MS16 chassis - one Ethernet interface only

- FO-4E1T1-BNC-I** : standalone optic multiplexer, BNC connectors, 110/230V mains supply
- FO-4E1T1-BNC-C** : standalone optic multiplexer, BNC connectors, alimentation continue 48Vdc
- FO-4E1T1-BNC-R** : optic multiplexer, BNC connectors, rack card for the carte AMS4 / AMS16 chassis
 Fits 2 slot of the AMS4/1MS16 chassis

- RACK-2-UNIVERSAL** : 1U/19" kit for fitting 1 or 2 standalone units in a 19 inches rack
- AMS4** : 1U/19" chassis with 4 slots for rack mount cards (2 BNC cards only)
- AMS16** : 4U/19" chassis with 16 slots (8 BNC cards only), redundant supplies, centralized SNMP management
- FO-reference-A** : Alarm relay option

This document is not contractual. CXR continuously improves its products. Specifications are subject to change without notice.