

FO-E3T3

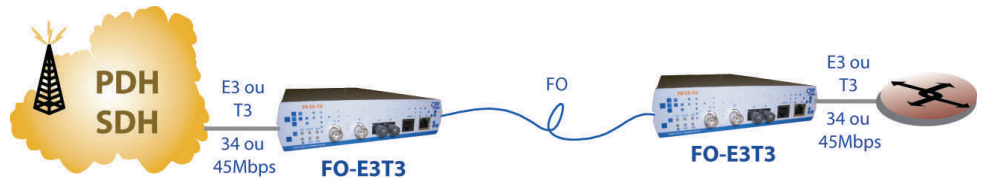
E3 & T3/DS3 FIBER OPTIC MODEM

Benefits

This equipment by setup is providing four functions:

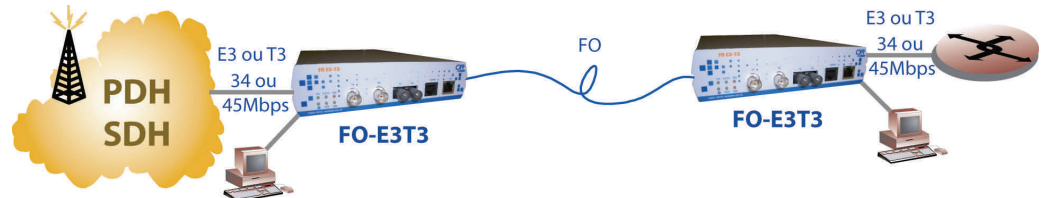
- Extension over fiber of G.703 E3 or T3
- Multiplexer over fiber of G.703 E3 or T3 and one Ethernet 34 or 45Mbps
- Converter Ethernet to fiber 34 or 45Mbps at G.703 E3 or T3 format
- Media converter switch 10/100BaseT Ethernet to 100FX Ethernet
- Support both G.703 rates E3 & T3
- E3: 34.368 Mbps
- T3: 44.736Mbps, T1.102
- Coding: HDB3, B3ZS
- Low jitter: G751, TBR24
- Choice of fiber optic :
 - MM 1310nm 4km
 - SM 1310nm 30km
 - Or by SFP up to 200km or CWDM
- Loop test per ITU-T V54
- Desktop unit or 19" modular chassis with SNMP management

The **FO-E3T3** is a fiber optic modem aimed at transporting an G703 E3 or T3 interface. Thanks to a choice of fiber optic interfaces or SFP module, the **FO-E3T3** extends E3 & T3 links



over distances of 4 km up to 200 km with SFP or single fiber WDM. This product is very convenient to transport E3/T3-DS3 in shorter distance instead of dual coax cable.

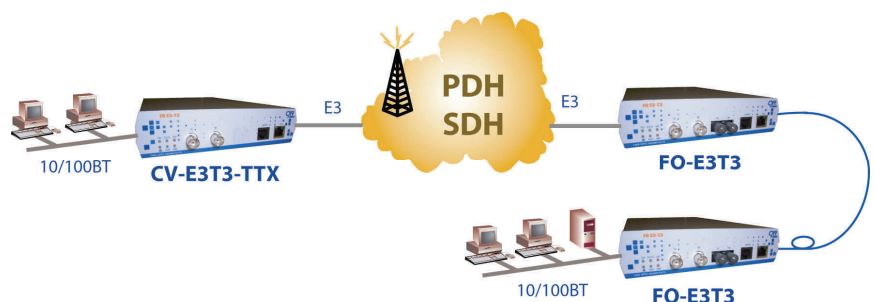
The **FO-E3T3** operates also as a converter Ethernet bridge to fiber optic inside E3 or T3 TDM transparent pipe. It can be also used as a Ethernet converter 10/100BaseT to 100FX.



The **FO-E3T3** carries the G703 signal in full transparency for data or framed signal (PDH, ATM, etc.). It embeds a clock and data recovery coding processor and a phase lock-loop circuit that regenerate the E3 or T3 signal with perfect characteristics and minimum jitter. This device can be used a multiplexer to carry together a E3/T3 and a Ethernet w a bandwidth of 34 or 45Mbps for each interface.

The **FO-E3T3** is very easy to install thanks to a complete choice of packaging and power supply. Loop and BER tests are controlled through an easy management interface with MX-CFG GUI or with text screen .

The **FO-E3T3** is conditioning in a metallic desktop or as card for AMS4/16 19" chassis with centralizer SNMP management.



E3 & T3 G703 Fiber Optic Extender**SPECIFICATIONS****Working mode**

- E3 or T3 fiber optic modem
- Fiber optic multiplexer transparent E3 + 10/100Baset with 34Mbps bandwidth
- Fiber optic multiplexer transparent T3 + 10/100Baset with 45Mbps bandwidth
- Ethernet 10/100Baset to E3 or T3 fiber converter
- Ethernet 10/100Baset to 100FX fiber media converter

E3 Interface

- G703 clear channel
- Coding : HDB3
- Bit rate: 34.368 Mbps +/- 20 ppm
- Phase jitter: G.751, G.752, G.755, and attenuation ETSI TBR-24
- Sensitivity : 12 dB line loss
- Clock modes internal or remote receive
- Impedance : 75 Ohms on BNC
- Insulation 1500v

T3 Interface

- Coding : B3ZS
- Interface : DSX-3, GR253, ANSI T1.102
- Bit rate : 44.736 Mbps +/- 20 ppm
- Phase jitter : Bellcore GR499
- Sensitivity : 12 dB / 1,000 ft line loss
- Clock mode : internal or remote receive
- Impedance : 75 Ohms on BNC connectors
- Insulation : 1500V

Ethernet Interface

- Rate : 10 / 100 MBPS
- Interface : 10/100 BaseT, IEEE 802.3
- Automatic rate control : 10 / 100 Mbps
- Automatic sense : MDIX
- RJ45 socket with Speed and Link/Act indicators
- Ethernet bridge memory: 2,000 MAC add.
- Mode store and Forward
- Encapsulation : HDLC
- Frame buffer : 400 KB

Fiber Optic Interface

- Coding: CMI
- Connector : MM in ST, SM in SC/PC and option FC-PC, SFP in LC

Management

- Test Loop: V54, B3, B4
- Embedded BER tester
- Front panel indicators: Power indicator, Valid E3/T3 detection, AIS alarm, Valid remote detection, Test indicator, Error

Management

- Local RS232 console port : AT commands, intuitive VT100 menus
- MS Windows™ graphical software – MX-CFG : configuration editing and storing, operation control, test control, firmware update
- Diagnostics : network loop, PING, 2E15 BER test
- TCP-IP management : Telnet client and server, SNMP, FTP for firmware update
- Remote system control through TCP-IP protocols
- Statistic over the last 24 hours, 1 hour and 15 minutes : E3/T3 and Ethernet interface status, error seconds on the Ethernet and E3/T3 interfaces, AIS second counter, Ethernet frame counters
- Alarm and critical event log
- Temporized alarm relay

Power Supply

- 110-230 Vac : FO-E3T3-xxI
- 48 Vdc (36 – 72 Vdc) : FO-E3T3-xxC

Miscellaneous

- Size : 287 x 175 x 41 mm (DxWxH)
- Weight : 0.8 kg
- Operating temperature: -10 to +50 °C
- Hygrometry: 10 to 90 %, non condensing
- CE: EN-60950, EN-55022, EN-55024
- Power consumption: < 10 W
- MTBF = 100,000 H



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ORDERING INFORMATION

FO-E3T3 – XX Y Z

XX: fiber optic interface

M3: multi mode LED 1310 nm, 4 km
SL: single mode LED 1310 nm, 30km
SFP

Y: fiber optic

C: SC socket
T: ST socket (on option)
L: LC socket (on option)

Z: packaging

I: desktop enclosure with embedded mains power supply
C: desktop enclosure with embedded 48 Vdc converter
R: modular card for 19" AMS chassis