FOP-xxFXS-yy-MM/SM30 FOP-xxFXO-yy-MM/SM30

Features

- Low cost and easy solution to deploy analogue voice over fiber
- Point to point solution to extend 1, 4, 8, 16 or 30 FXO to FXS or FXS to FXS in PLAR mode.
- PCM 64K with CAS signalization support modem and fax
- Ring detection from 17 to 60Hz, ring and emission 25 or 50Hz on order
- Optional Ethernet port for LAN connection in complement of E1
- · Easy install, plug and play



- Fiber: Single mode of 30 or 60km or WDM with a single fiber à 20km or Multi mode at 2km
- Power supply DC 48v with AC/DC adapter.

SIMPLE POTS TRANSPORT OVER FIBER



This equipment is used to extend point to point analogue voice lines over fiber optic link in dark fiber with the transport of services for private environment to extend PBX or by Telco as channel bank over fiber.

The *FOP-xxFXS/FXO* fiber multiplexer is available with 1, 4, 8, 16 or 30 channels, of telephone extension through optical cable.

This solution support the extension of analog lines from PBX or Telco's switch to analogues phone set or fax with *FOP-xxFXO* in the PBX side and the *FOP-xxFXS* at the other side.

With 2 FOP-xxFXS telephone sets can be connected face to face over fiber and

ring without PBX as the phone set in one side is hang off by using PLAR mode.

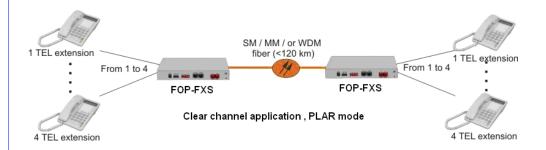
The fiber is caring a 2Mbps signal. In case of 1, 4, 8 and 16 voice channels an optional transparent bridge support a 10/100 Ethernet trunk together with the voice limited to 2Mbps—nb voice x 64k.

The *FOP-xxFXS/FXO* provide one RJ45 port per voice channel.

Fiber link can be order with standard connection of 2 fibers Multimode (MM) up to 2km, Single Mode (SM) with a budget for 30km or 60km or with a single fiber WDM (1310/1550nm) up to 20km.

APPLICATION 1

PLAR mode application. When one telephone is hang off , the phone set is ringing in the other side. Phone 1 correspond to phone 1 on the other side.



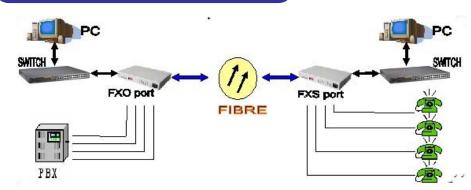


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Optical Modem for PCM voice

APPLICATION 2



This application is provide the extension of 4 analogue telephones or fax from or a PBX connection to another site over a fiber. Fiber can be use also

for carry together an Ethernet bridge to the distant site. All voice information (dial-in, ring, service) are transparently carried to the other end.

SPECIFICATIONS



Line input impedance: 600 Ohms

(hanging off)

Insertion loss: -3+/-0,75dB Frequency range 300 to 3400Hz (-0.6 to +3dB)

Weighted noise < 63,7dBmop

Crosstalk loss >65dB

Loop impedance <1800 Ohms

Voice coding PCM 64 with CAS signaliza-

FXS

Ringing voltage: 75V

Ringing frequency: 25Hz or 50Hz on order.

Ringing detecting voltage: 35V Ringing detection: 17-60hz Optical Interface Parameter optical wavelength on order

MM2= 1310nm for multimode SC/PC

support 2km

MM2-ST= 1310nm for multimode ST sup-

port 2km

SM30= 1310nm for single-mode SC/PC

support 30 to 40km

SM20W3 single fiber bidirectional WDM

with transmitter at 1310nm

SM20W5 single fiber bidirectional WDM

with transmitter at 1550nm

Vibration characteristic: Conforms G.742 and G.832 standard

Power

Internal DC -36 to 72Vdc

Delivered with external AC/DC converter

50/60Hz

Power Consumption: < 48W **Typical Operation & Storage**

Operation:0° to 45°C

Storage Temperature: -20° to 60°C Humidity:5% ~ 90% non-condensing

Dimension & Weight

1 U 19" metal box Size: 480 x 210 x 44 mm (WxDxH).

Shipping Weight: 4kg. MTBF 100.000 hours

ORDERING INFORMATIONS

FOP-nFXt-hz-opt-xxxx-Ref

Number of port 1, 4, 8, 16 and 30 n Type of interface FXS or FXO t hz Ring frequency 25 or 50 Hz

TTX Pont Ethernet rate 1,6Mbps Option Opt

> MM2: multimode 1310nm, 2km, SC/PC connector MM2-ST: multimode 1310nm, 2km, ST connector SM30: single mode 1310 nm, 30km, SC/PC SM60: single mode 1310 nm, 60km, SC/PC

SM20W3: single fiber WDM single mode 1310 nm, SC/PC SM20W5: single fiber WDM single mode 1550 nm, SC/PC

Examples FOP-4FXS-50-MM2

Fiber type

XXXX

is a 4 channels voice FXS 50Hz ring on fiber, SC/PC connector, multi-mode 1310nm fiber 2km, FOP-4FXO-50- TTX-SM30

Is a 4 channels voice FXO 50Hz (to connect to the PBX) on single mode fiber 1310nm with a budget for 30km, SC/PC connector, Ethernet link





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