FOP-4FXS-4TTX-MM/SM20-W13
FOP-4FXO-4TTX-MM/SM20-W15

Features

- Web-based configuration
- Up to 4 FXS/FXO and full bandwidth 100M Ethernet traffic multiplexed into fiber uplink
- Support Caller ID feature and reverse polarity billing functions
- 2 channels of RS232/485
- 48VDC or 220VAC flexible power inputs

4 VOICES & ETHERNET INTERFACES OVER FIBER

FOP-4FXx-4TTX-xxx series provides a simple and cost-effective solution for 100M Ethernet, as well as 2xRS232/485.

This equipment uses design of ultra large scale integrated circuit, and its outward appearance is succinct. The merits include easy installation and debugging, unnecessary for maintenance and steady performance. It is suitable in business for communication operator, government and kinds of entities.
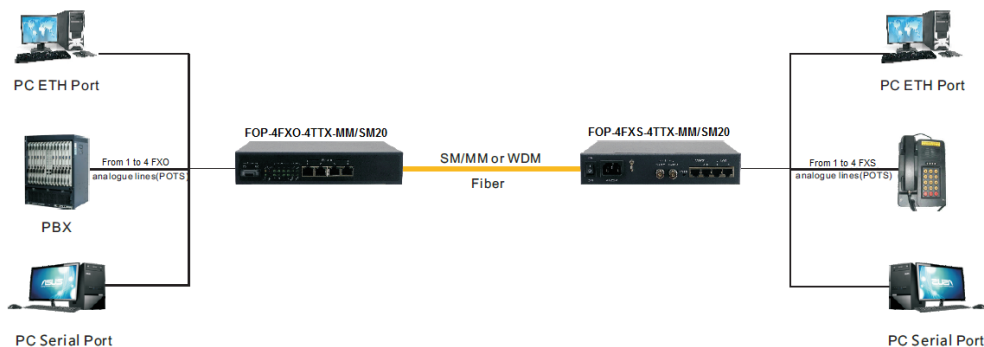
FOP-FX fiber multiplexer can provide 4 channels, telephone through optical cable, the network application is point-to-point, supporting FXO (FOP-4FXO) or FXS (FOP-4FXS). It has solved telephone transmission problem of edge customers.

Additional 4x10/100 Ethernet interfaces are embedded. This is a transparent bridge to bridge connection.

Note, that 4 channels of FXS/FXO are connected at same RJ-45 port, so all 8 pins of RJ-45 connector are used, and additional cable of RJ-45 ----> 4 x RJ-11 should be used in case the connections are made directly to phone sets, but if RJ-11 cable are patched to LSA+ or other distribution panels, then it's not necessary.

TYPICAL APPLICATION

In private networks, Optical Multiplexer shares services such as FXS/FXO, RS232/RS485, Ethernet, in P2P topologies over fiber. 4FXS/FXO Optical Multioplexer establishes TDM and Ethernet connectivity between the remote branches and headquarters for edcational, financial and military sectors.

SPECIFICATIONS

Fiber Interface
- Number of Ports : 1
- Optical Wavelength :
  850/1310nm (MM)
  1310/1550nm(SM)
- Transmission distance : 2 to 120Km
- Fiber Optic Interface Type : FC/SC
- Data Rate : 150Mbps
- Typical output power
  SM 1310/1550nm $\geq$ -8dBm
  MM 850nm $\geq$ -18dBm
  MM 1310nm $\geq$ -25dBm
- Receiver Sensitivity $\geq$ -34dBm

Fast Ethernet Interface
- Number of Ports : 4
- Interface Type : 10/100Mbps, auto-negociation, full/half duplex, flowcontrol, MDI/MDX crossover
- Compliance : IEEE802.3, 802.3u, 802.1p & 802.1Q
- Max Frame Size : 2047
- Connector : RJ45
- Electrical Cable Type : Cat.5

Management Port
- Ethernet InBand Management : 10/100BaseT
- Console Port : RJ45 connector, standard RS232 @115.2kbps

Voice (FXS/FXO) interface
- Number of Ports : 4
- Port Type : RJ45
- Second-Tier AC input impedance : 200+680//104Ω (Three components)
- Return Loss : 40dB

- Relay Interface (FXO) : connected to PBX
  Ringing Voltage : 35~90V (adjustable)
  Ringing frequency : 15~45HZ (adjustable)
- User Interface (FXS) : Connected to Phone
  Loop Resistance of Subscriber Line : $\geq$1KΩ (including the phone)
  Ringing voltage-peak : 50~90V (adjustable)
  Ringing frequency : 15~45HZ (adjustable)
  Supply voltage : 32~52V (adjustable)

Environmental Limits
- Operating Temperature : 0 to 50°C
- Storage Temperature : -40 to 85°C
- Ambient Relative Humidity : 5 to 95% (non-condensing)

Power Requirements
- Input Voltage :
  AC : 100-240VAC (±10%), 50/60Hz
  DC : -48VDC (36-72VDC)
- Power Consumption : < 30 watts

Physical Characteristics
- Housing : Metal
- Weight : 1.0kg
- Dimensions : 210 x 143 x 41mm

ORDERING INFORMATIONS

FOP-4FXO-4TTX-MM	Fiber optic modem PCM 4 FXO (4 RJ45), bridge 4 ports 10/100BaseT total BW 100 Mbps, MM850 14dB budget 2km, FC/UPC, power supply AC and DC 48V.
FOP-4FXS-4TTX-MM	Fiber optic modem PCM 4 FXS (RJ45), bridge 4 ports 10/100BaseT total BW 100 Mbps, MM850 14dB budget 2km, FC/UPC, power supply AC and DC 48V.
FOP-4FXO-4TTX-SM20W13	Fiber optic modem PCM 4 FXO (4 RJ45), bridge 4 ports 10/100BaseT total BW 100 Mbps. Fiber SM WDM single core TX=1310, budget 20km , FC/UPC simplex, power supply AC and DC 48V.
FOP-4FXS-4TTX-SM20W15	Fiber optic modem PCM 4 FXS (RJ45), bridge 4 ports 10/100BaseT total BW 100 Mbps. Fiber SM WDM single core TX=1550, budget 20km , FC/UPC simplex, power supply AC and DC 48V.

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