

Modular Fiber Optical Multiplexer FOM480

NEW



Description

A fully new design concept to challenge existed high capacity PDH. The powerful FPGA coding realized a full 100M Fast Ethernet link and 16 E1 channels into an optical link. The completed modular structure provide the most flexible combinations for customer's application and kept expanded capacity for future upgrade. The FOM480 is the cost-effective solution to extend traditional E1 and Ethernet over fiber.

FOM480 provides two slots of optical link for optional 1+1 auto protection switch (APS) and 4 slots of tributary with various plug-in modules including 4xE1 channels, 4xFXO/FXS and 4xV.35 module. The maximum capacity will be up 4 plug-in modules which could be combinations with above modules.

And the 100M Ethernet data link is an extra channel to be multiplexed into an optical link, it doesn't waste E1 bandwidth to carry Ethernet during optical transmission. According to network application, FOM480 can offer any combinations for audio/data/video services.

FOM480 with high flexibility, performance and C/P value, is the best solution for voice/data/video services in existed market.

Features

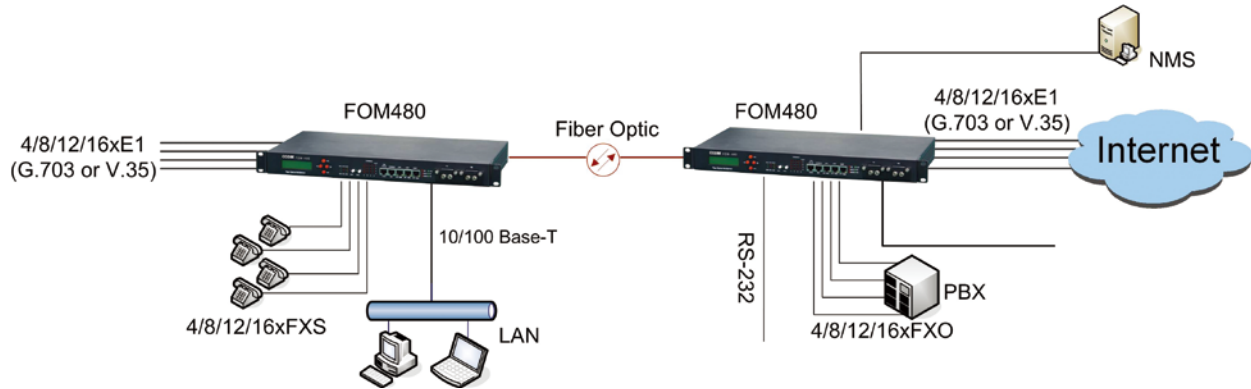
- Up to 16 E1 channels and one 100Mbps Fast Ethernet channel over an fiber optical link
- Fully modular include 2 front slots for optical module and 4 rear slots for tributary module
- Various modules for tributary interface included 4xE1 Channels module, 4x FXO/FXS module and 4xV.35 module
- Optional 1+1 optical links with Auto protection Switch (APS) and Automatic Laser Shut-down (ALS)
- Channel Capacity : 4,8,12 or 16 channels
- Local/Remote loopback features for optical and E1 interfaces.
- Order Wire (OW) channel is available for end-to-end operation and maintenance
- One V.24 (RS-232) asynchronous channel for extra transmission
- SNMP management
- LCD and CIT for configuration and monitor
- Dry contact (D-type 9) for central office Audible/Visible alarm
- Redundant power supply with DC/AC modules

Application

Solution: Point-to-Point Application

In the following example, up to 16 available E1/V.35/FXS/FXO channels in one FOM480, each of them is independent of any other channel for framing or timing. In addition, two channels of Ethernet, one channel of RS232 and order-wire can be provided between the units.

NMS can manage the remote products via the local unit.



Specification

Optical Interface

- Function: One optical link for transmission;
Optional SM/MM and WDM configuration and
Optional ALS function
- Baud rate: 150Mb/s±50ppm
- Coding: NRZ
- Transmission medium: G.652, G.655, G.656 optical fiber
- Transmission distance: Up to 120Km

4xE1 Module

- Standard: ITU-T G.703, G.823 and G.742
- Framing: Unframed (transparent)
- Connector: Build-in BNC 75Ω
Build-in RJ-45 120Ω
- Code: HDB3
- Baud rate: 2048 Kbps ± 30ppm
- Jitter: comply with G.823
- Transmit Level: According to G.704
- Impedance:
 - 75Ω for unbalanced (BNC);
 - 120Ω for balanced (RJ-45)
- Receiving sensitivity: 0~-18dBm
- Transmit high voltage: 2.37V± 10%, 75Ω, 3.00V± 10%, 120Ω
- Transmit low voltage: 0 ± 0.1V

4×V.35 Module

- Ports: 4
- Rate: n×64K(n≤32)
- Code : NRZ
- Connector HD-62F

Ethernet Interface

- Standard: comply with IEEE802.3, 802.3u, 802.1q
- Ports: 2 port
- Baud rate: Full rate 10/100Mbit/s, auto-adjusting/force mode
- Duplex Mode: force or Auto-Negotiation on Half / Full
- Duplex Mode: Auto negotiation, 100M Full Mode, 100M Half Mode, 10M Full Mode, 10M Half Mode
- MAC Address: 1024
- MAC Address Update: 5 Minutes
- Auto MDI/MDI-X
- Connector: 10/100Base-T: RJ-45

Physical Summary

- Dimension: 426mm(W)×44mm(H)×225mm(D)
- Weight: 2.5 Kg
- Power: Alternative AC or DC power supply:
90 to 260 VAC, 50 or 60 Hz, 15W; -36 to -72 VDC, 15W
- Temperature: 0°C-50°C for operation;
-20°C-70°C for storage
- Humidity: ≤90% (non-condensing)

4×FXS/FXO Module

- Ports: 4 port
- Type: FXS/FXO
- Connector: RJ-11
- Baud rate: 300~3000HZ

1

Multi-access System

2

Compact SDH/MSTP Multi-Service Platform

3

PDH Fiber Optical multiplexer

4

PDH Fiber Optic Multiplexer

5

PDH Fiber Optical Multiplexer

6

G.SHDSL PRODUCT

7

E1 Inverse Multiplexer

8

Ethernet Bridge

9

G.703/G.704 to V.35 Converter

10

Ethernet Media Converter