

Fiber Optical Multiplexer

FOM-4 (FOM-8)

NEW



General

FOM-4 (FOM-8) fiber optic multiplexer with high-performance ASIC design, integrates 4/8 E1 channels, 2 asynchronous RS-232 data channels and an optional 100Mbps Ethernet over one optical fiber. The transmission distance is up to 120km.

FOM-4 (FOM-8) fiber optical Multiplexer can be used to extend the E1 and Ethernet transmission distance transparently and provides a cost-effective and high-performance solution for the last mile access.

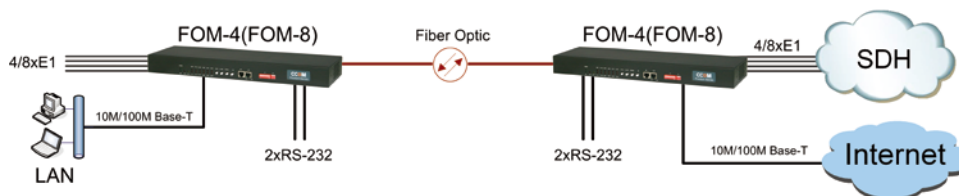
FOM-4 (FOM-8) transmits each of the tributary E1 channels independently. Ethernet port is an integrated 10/100Base-T RJ-45 port. It can work in half or full duplex mode, support auto-negotiation and transparent VLAN forwarding.

Two types of standalone and card versions are optional. The standalone compact 1U high unit is mountable for 19 inch rack. And the card version can be installed in MAS, a universal rack for SNMP management. Moreover, in-band management for the standalone unit via the card unit in NIC-iRACK is available.

Features

- Multiplexing 4/8x E1 (2.048Mb/s) channels and 2 asynchronous RS-232 data channels over one fiber link
- 1 optional 100M Ethernet channel
- 1 order wire port for system maintenance
- Local and remote loopback for each tributary E1 link
- Standalone unit: 19 inch, 1U, compact unit, easy to be transported and installed
- Card unit plugged in NIC-iRACK, support SNMP management
- GUI SNMP NMS based on Windows™ via central card unit in NIC-iRACK, in-band management for remote standalone units
- Power supply: 90~260VAC or -36~-72VDC

Application



Technical Specification

E1 Interface

- Function: 4/8 E1 channels 75Ω or 120Ω
- Framing: Unframed (transparent)
- Standard: ITU-T G.703, G.823 and G.742
- Connector: Build-in 8/16 × BNC, 75Ω
Build-in 4/8 × RJ-45, 120Ω
- Code: HDB3
- Baud rate: 2048 Kbps ± 30ppm
- Transmit Level: According to G.704
- Receiving sensitivity: 0~-18dBm
- Transmit high voltage: 2.37V ± 10%, 75Ω, 3.00V ± 10%, 120Ω
- Transmit low voltage: 0 ± 0.1V

Optical Interface

- Function:
 - One optical link for 4/8 E1 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 fiber optical
- Transmission distance: Up to 120Km

Ethernet Interface Specification (Optional)

- Function: 10/100Base-T port, support VLAN Trunk and flow control
- Standard: IEEE 802.3 802.3u 802.1q
- Interface: Ethernet and Fast Ethernet
- Baud rate: Full rate 10/100Mbit/s, auto-adjusting/force mode
- Duplex Mode: force or Auto-Negotiation on Half / Full Duplex Mode
- Connector: 10/100Base-T: RJ-45, auto MDI/MDI-X
- Frame Length: 64byte(least)/1552byte(most)
- MAC Address: 1024
- MAC Address Update: 5 Minutes

Physical Summary

- Dimension: 441 mm/17.38 in(W) × 223 mm/8.79 in(D)
× 44.45 mm/1.75 in (H)
- Weight: 1.5Kg
- 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)