



4E1+1*10/100BaseT+4*FXO(S) +1*RS232 Optical Multiplexer



Model Name:FMO-120-MUX

1.Product Description

1.1 Function

This point to point fiber transmitting equipment, which is designed on large scale integrated circuit, realizes 4 E1 circuit, 1~4 channels 100M Ethernet, 1~8 channel voice (FXO, FXS) and 1~4 channel RS232. Its merits include complete warning function, high integration, low consumption, stable performance and convenient usage.

1.2 Features

- provides 4 channel E1/ G.703;
- provides 1~4 channel 100M (liner) Ethernet ports
- provides 1~8 channel voice port, FXO and FXS,E&M for option;
- provides 1~4 channel RS232, rate supports 300-15200 bps;
- Ethernet port 10/100M, full/half duplex auto-adaptable and supports VLAN;
- Ethernet port supports AUTO-MDIX (twisted cable and straight cable auto-adaptable);



- 1-8 channel voice connection, supports calling indication;
- Configuration: point to point;
- Voice port supports O port and S port, O port connects switch and S port connects user's phone;
- Optical interface supports SC/FC interface and supports single fiber interface.

1.3 Parameter & Index

Optical interface

Optical wavelength: single mode 1310nm/1550nm

Fiber: single fiber or double fiber for option

Transmitting consumption: -9dBm/-5dBm

Transmission range: 0-50Km/120Km for option

Optical interface: SC/FC

Receiving and dispatching module: >-6dBm

Optical receiver receiving sensitivity <-36 dBm (BER<10⁻¹¹)

Fiber circuit code: NRZ code

E1 interface

Standard: conforms to G.703 standard

Line speed : 2.048MHz ±50PPM

Code : HDB3

Impedance : 75 (unbalanced)

Connector : BNC (75)



Vibration characteristic: satisfies G.742 and G.823 standard

10/100Base-T port

Rate : 10M/100M , full/half duplex auto-adaptable

Protocol: supports IEEE 802.3 , IEEE 802.1Q(VLAN)

MAC address: can learn 4096 MAC address

Physical interface : RJ45, supports AUTO-MDIX (twisted cable and straight cable auto-adaptable)

■ FXS phone port

Ring voltage : 75V

Ring frequency : 25HZ

Two line input impedance : 600 (hanging off)

Wastage : 40 db

■ FXO switch port

Ring test voltage : 35V

Ring test frequency : 17HZ-60HZ

Two line input impedance : 600 (hanging-off)

Wastage : 40 db

RS232 port

Rate : 300 - 115.2Kbps auto-adaptable (Asynchronous)

Interface characteristic : satisfies ITU-T V.24 standard

Connector : RJ45

1.4 Physical Dimension

Desktop: 483 (width) × 140 (depth) × 50 (height) mm

1.5 Operation Condition

Voltage : AC180V ~ 240V ; DC -48V ; DC +24V

Consumption : 5W

Operating temperature : 0°C~50°C

Storing temperature : -40°C~+70°C

Relative humidity: : 95 %

Without disturbance of erosive and solvent gas, raising dust or strong magnetic field

2.Application

