FOM Family

Fixed 4E1/4T1 Fiber Multiplexer with optional Order Wire / SNMP

FMUX04

The FMUX04 is a 1U half 19" stand-alone or rack mountable point-to-point multiplexer for 4*E1 or 4*T1 (selectable) transmissions over a single fiber optic link. Its half-rack format makes it ideal for low cost multiplexing applications that require up to 4-channel. All channels provide completely transparent transmission of E1 or T1 regardless of frame mode, clock source or timeslot assignment. Available in either AC or DC models, the AC supplies operate from 100~240VAC while DC supplies operate from 18~72VDC. A wide range of transceiver selection provides fiber connection with SC, FC or ST type connectors in multimode or single mode and at distance from 2 to 120km as well as BiDi (single fiber) at distances of 20, 40, 60, or 80km. Additional options include "Order Wire" phone connection (FXS port) and a SNMP management.
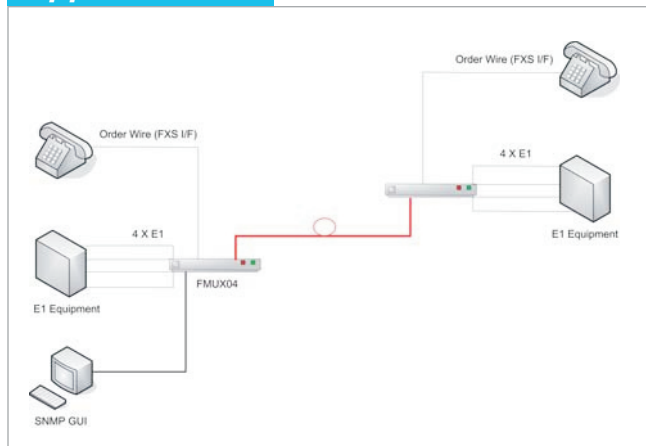
Features

- 1U stand-alone unit
- Channel service setting and remote loop-back setting via front panel DIP switch or serial console
- Far End Fault (FEF) on fiber link, selectable
- On-line Bit Error Rate monitor feature with four error-rate classes
- Dual color LEDs indicators
- Optional dedicated Order Wire phone port (FXS, RJ-11 port)
- Console port and one alarm relay
- Optional SNMP management, Telnet, and Web Based local and remote configuration
- System BER ≤ 10^{-11}

Application

Specifications

Ports		
Optical Interface :	Connector :	1x9 (SC, ST, FC)
	Data rate :	38Mbps
	Bit Error Rate :	Less than 10^{-11}
	Cable type :	MM 62.2/125µm, 50/125µm. SM 9/125µm
	Distance:	MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km
	Wavelength :	1310, 1550nm
Electrical Interface :	Console :	RS232 (DB9F) Async
	SNMP :	RJ45
	Order wire :	RJ11
	E1 :	BNC 75 Ω, RJ45 120 Ω T1 RJ45 100 Ω, 100 metersΩ
Standard	E1:ITU-T, T1:ITU-T, AT&T, ANSI	
LEDs	PWR, Alarm, Far End /Near End Error, System failure, E1/T1 status	
Power	AC : 100 ~240V DC24 : 18 ~ 36V, DC48 : 36 ~ 72V	
Power Consumption	< 20W	
Dimensions (D x W x H)mm	235 x 195 x 45mm	
Weight	850g	
Temperature	0~50°C (Operating) ,0~70°C (Storage)	
Humidity	10~90% non-condensing	
Certification	CE, FCC, RoHS	
MTBF	57350 hours	

Ordering Information

Master Unit	Connector Type	Transceiver Type
FMUX04-AC/SC	SC	MM: 2km
FMUX04-DC/SC	ST	SM: 15/30/50/80/120km
	FC	WDM: 20/40/60/80km