FMUX04

4E1/T1 Fiber Multiplexer

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.
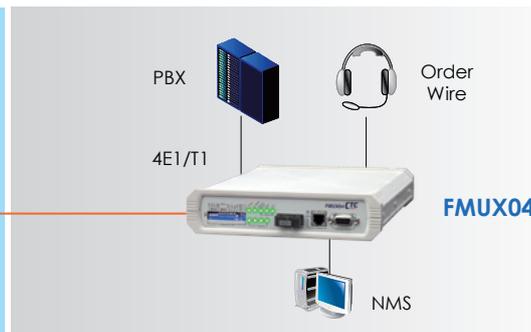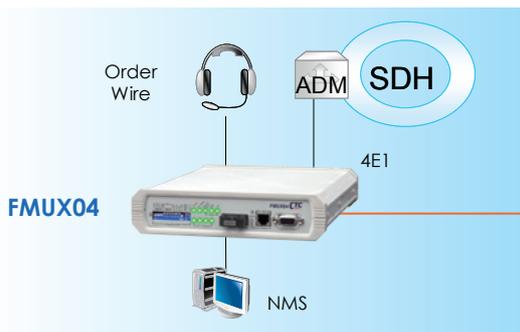
Feature

- 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}

Specifications

Optical Interface	Connector	1x 9 (SC, ST, FC)
	Data rate	38Mbps
	Bit Error Rate	Less than 10^{-11}
	Fiber	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	RS-232 (DB9F) Async
	SNMP / Order wire	RJ-45 / RJ11
	E1	BNC 75 Ω, RJ45 120 Ω, T1 RJ45 100 Ω
Standard		E1: ITU-T, T1: ITU-T, AT&T, ANSI

Indication	PWR, Alarm, Far End /Near End Error
	System failure, E1/T1 status
Power input	AC : 100 ~240V
	DC24 : 18 ~ 36V, DC48 : 36 ~ 72V
Power Consumption	<20W
Dimensions	235 x 195 x 45mm (D x W x H)
Weight	0.85kg
Temperature	0 ~ 50℃ (Operating), 0 ~ 70℃ (Storage)
Humidity	10 ~ 90% non-condensing
Certification	CE, FCC, RoHS compliant
MTBF	75,000 hrs

Application

Ordering Information

FMUX04 – ☐☐ / ☐☐☐☐☐
Power Type   Connector Type   Connectivity Distance

Example: FMUX04 – AC / SC015

Model Name	Description
FMUX04-AC/SC 015	SC, 15Km, 1310nm, 12dB
FMUX04-AC/SC 030	SC, 30Km, 1310nm, 20dB
FMUX04-AC/SC 050	SC, 50Km, 1310nm, 28dB
FMUX04-AC/SC 080	SC, 80Km, 1550nm, 29dB
FMUX04-AC/SC 120	SC, 120Km, 1550nm, 35dB, DFB Laser
FMUX04-AC/SC 20A	SC, 20km, Tx1310 /Rx1550nm (A type), 17dB
FMUX04-AC/SC 20B	SC, 20km, Tx1550 /Rx1310nm (B type), 14dB
FMUX04-AC/SC 40A	SC, 40km, Tx1310 /Rx1550nm (A type), 25dB
FMUX04-AC/SC 40B	SC, 40km, Tx1550 /Rx1310nm (B type), 22dB, DFB Laser
FMUX04-AC/SC 60A	SC, 60km, Tx1310 /Rx1550nm (A type), 29dB
FMUX04-AC/SC 60B	SC, 60km, Tx1550 /Rx1310nm (B type), 29dB, DFB Laser

Model Name	Description
FMUX04-DC/SC 002	SC, MM, 2Km, 1310nm, 11dB
FMUX04-DC/SC 015	SC, 15Km, 1310nm, 12dB
FMUX04-DC/SC 030	SC, 30Km, 1310nm, 20dB
FMUX04-DC/SC 050	SC, 50Km, 1310nm, 28dB
FMUX04-DC/SC 080	SC, 80Km, 1550nm, 29dB
FMUX04-DC/SC 120	SC, 120Km, 1550nm, 35dB, DFB Laser
FMUX04-DC/SC 20A	SC, 20km, Tx1310 /Rx1550nm (A type), 17dB
FMUX04-DC/SC 20B	SC, 20km, Tx1550 /Rx1310nm (B type), 14dB
FMUX04-DC/SC 40A	SC, 40km, Tx1310 /Rx1550nm (A type), 25dB
FMUX04-DC/SC 40B	SC, 40km, Tx1550 /Rx1310nm (B type), 22dB, DFB Laser
FMUX04-DC/SC 60A	SC, 60km, Tx1310 /Rx1550nm (A type), 29dB
FMUX04-DC/SC 60B	SC, 60km, Tx1550 /Rx1310nm (B type), 29dB, DFB Laser

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

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