

NEW



# FMUX04A

4E1/T1 + 3x FE Fiber Multiplexer

The 4x E1/T1 plus 3x 10/100Base-TX Ethernet switch PDH Fiber Optical Multiplexer, FMUX04A is fixed type design that provides simultaneous multi-service through dual (1+1) fiber. The fiber optic line is based on 155Mbps SFP technology that allows the flexible use of Multimode or Single mode optics and enables support for different wavelengths and distances. The use of bi-directional SFPs maximizes the utilization of fiber optic line and results in saving fiber line costs. The multiplexer can be equipped with AC and DC dual power supplies for redundant operation. With optional SNMP and Web-based management in the FMUX04A, the administrator can monitor, configure and control both the local and remote device.

## Features

- 4 channels unframed E1/T1 with both E1 BNC(75Ω) and E1/T1 RJ45 (120Ω) ports
- 3x 10/100Base-TX Ethernet RJ45 ports with 100Mbps throughput)
- Auto MDI/MDIX, Auto-Negotiation or Force mode
- Supports flow control
- RS-232 port with DB9 for system console
- One alarm output port
- Port based VLAN
- 2 plug-in SFP slot for optical 155Mbps SFP module
- Forward 1536 byte packets on Ethernet port
- 1+1 fiber protection, less than 50ms
- One RS232 clear channel with RJ45 port up to 250Kbps(Async)
- Supports Digital Diagnostics Monitoring Interface (DDMI)
- AIS on signal loss on E1/T1 and fiber port
- Loopback test on E1/T1, RS-232, fiber ports
- Supports local or remote In-band management
- SNMP and web based management (Options)
- Auto Laser Shutdown (ALS)

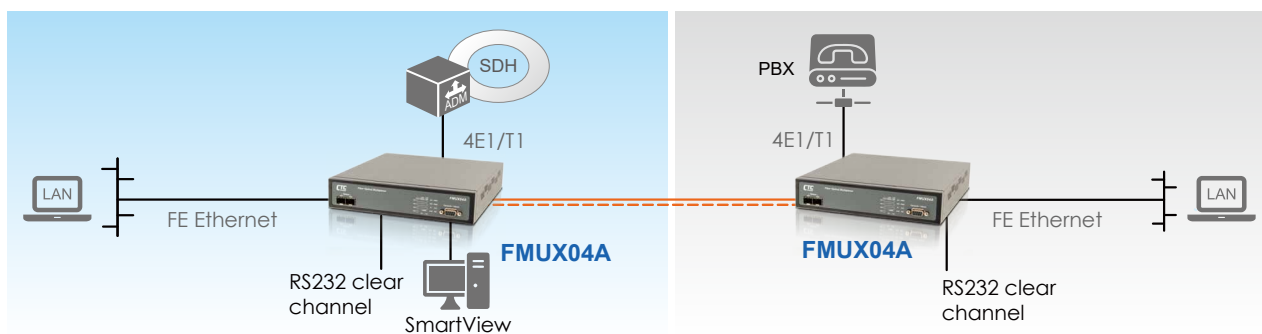
## Specifications

<b>E1/T1</b>	Framing: Unframed (transparent)
	Bit Rate: E1:2.048 Mb/s , T1: 1.544Mb/s
	Line Code: E1:AMI/HDB3, T1: AMI/B8ZS
	Line Impedance:
	E1: Unbalanced 75 ohms (BNC)
	E1: Balanced 120 ohms (RJ-45)
	T1: Balanced 120 ohms (RJ-45)
	Receiver sensitivity: Short haul
	Jitter Performance: According to ITU-T G.823
	Standard: ITU-T G.644, G.703, G.704, G.706 and G.732
Interface Connectors: RJ-45, BNC	
Test Loops:	LLB (Local Loop Back)
	RLB (Remote Loop Back)
	RRLB (Request Remote Loop Back)
<b>Optical Interface</b>	Bandwidth in optical Line: 155 Mbps
	Optical Connector: LC (SFP module)
	Distance: 20/40/80 Km

<b>Optical Interface</b>	Optical Wavelength: 1310nm, 1550nm, WDM Tx1310/Rx1550nm (Type A), WDM Tx1550/Rx1310nm (Type B)
<b>Ethernet</b>	Interface Type: 10/100Base-TX
	Connector: 3x RJ-45
	Standard: IEEE 802.3, 802.3u
	Duplex modes: full/half
<b>Indication</b>	FX1/FX2, E1/T1, LAN, Power Alarm, RDI
<b>Power Input</b>	AC : 100~240VAC, DC : 18-75 VDC
<b>Dimensions</b>	215 x 248 x 43mm (WxDxH)
<b>Operating Temperature</b>	0 ~ 50°C (Operating)
<b>Temperature</b>	-10 ~ 20°C (Storage)
<b>Humidity</b>	10 ~ 90% non-condensing
<b>Certifications</b>	CE, FCC, RoHS compliant
<b>MTBF</b>	75,000 hrs

## Application

### 4E1/T1+FE over fiber p to p connection Application



## Ordering Information

Model Name	Description
FMUX04A	Standalone 4x E1/T1+3x FE Fiber Multiplexer with built-in AD (AC+DC) power, optional SNMP and SFP
FMUX04A-SNMP	SNMP management card with 10/100Base-TX Ethernet port

4E1/T1 Fiber Multiplexer FMUX04A