

## FMUX04E

### 4-Ch E1 / T1+3-Port 100M Fast Ethernet Fiber Multiplexer



FMUX04E is a fixed design for 4x E1 + Fast Ethernet multi-service to dual strand fiber PDH multiplexer. FMUX04E provides E1 transmission transparently and pure 100Mbps Fast Ethernet simultaneously. The fiber optic line is based on SFP technology that allows the flexible use of Multimode or Single mode lines 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 line costs. The multiplexer can be equipped with optional AC and DC power supplies for redundant operation. With SNMP and Web-based management in the FMUX04E, the Network administrator can monitor, configure and control the activity remotely.

#### Features

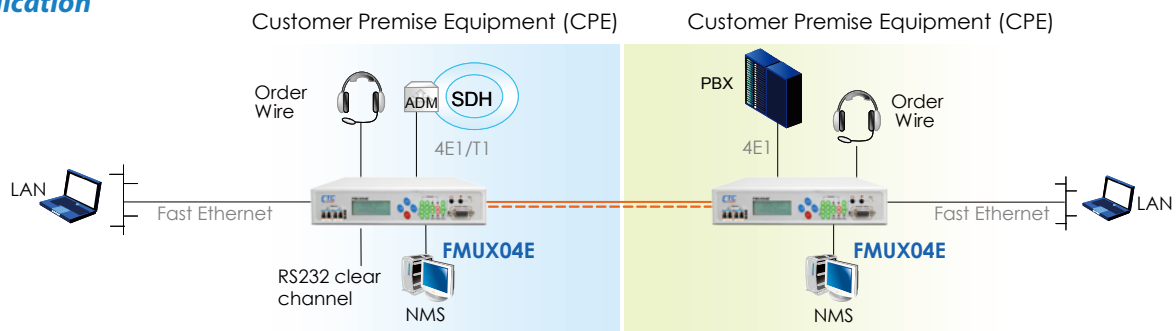
- ◆ 4 channels unframed E1/T1
- ◆ 3-CH 10/100Base-T(X) Ethernet
- ◆ Auto MDI/MDIX
- ◆ Auto-Negotiation or Force mode
- ◆ Supports flow control
- ◆ Supports 1552 packets (max)
- ◆ One clear channel RS232 up to 250Kbps(Async)
- ◆ 1+1 fiber protection, less than 50ms
- ◆ Supports Digital Diagnostics Monitoring Interface (DDMI)
- ◆ AIS on signal loss on E1/T1 and fiber port
- ◆ Port based VLAN function
- ◆ Loopback test on E1/T1, RS-232, fiber ports
- ◆ Supports Dying Gasp
- ◆ Supports local or remote In-band management
- ◆ Optional SNMP management
- ◆ Supports Order wire Ear / Microphone port.
- ◆ Supports On-Line F/W upgrade (local or remote) by the SNMP manager.

#### Specifications

E1/T1 ports	Framing: Unframed (transparent) Bit Rate: E1: 2.048 Mb/s, T1: 1.544 Mb/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 "Pulse" Amplitude: Nominal 2.37V +/- 10% for 75 ohms Nominal 3.00V +/- 10% for 120 ohms "Zero" Amplitude: +/- 0.3V Internal Timing: +/- 30 ppm Jitter Performance: According to ITU-T G.823 Standard: ITU-T 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)
-------------	---

Ethernet	Interface Type: 10/100Base-TX Connector: 3x RJ-45 Standard: IEEE 802.3, 802.3u Duplex modes: full/half
Indication	FX1 Link, FX2 link, E1/T1 Mode/Link/Loopback test, Order wire phone indicator, LAN Link/Speed.
Power Input	AC: 100~240VAC, DC: 18-75 VDC
Dimensions	248 x 215 x 43mm (D x W x H)
Operating Temperature	0 ~ 50°C (Operating) -10 ~ 20°C (Storage)
Humidity	10 ~ 90% non-condensing
Certifications	CE, FCC, RoHS
MTBF	57,350 hrs

#### Application



#### Ordering Information

Model Name	Description
FMUX04E-AC	Standalone FOM with built-in AC power, optional SNMP
FMUX04E-DC	Standalone FOM with built-in DC power, optional SNMP
FMUX04E-AD	Standalone FOM with built-in AC+DC power, optional SNMP
FMUX0E4-SNMP	SNMP management card, support web, telnet, SNMP functions

FMUX04E –    
 Example: FMUX04E – AC

\* SNMP option only required in one unit of paired link