

4-port E1/T1+100M Ethernet Fiber Multiplexer

FRM220-FOM04



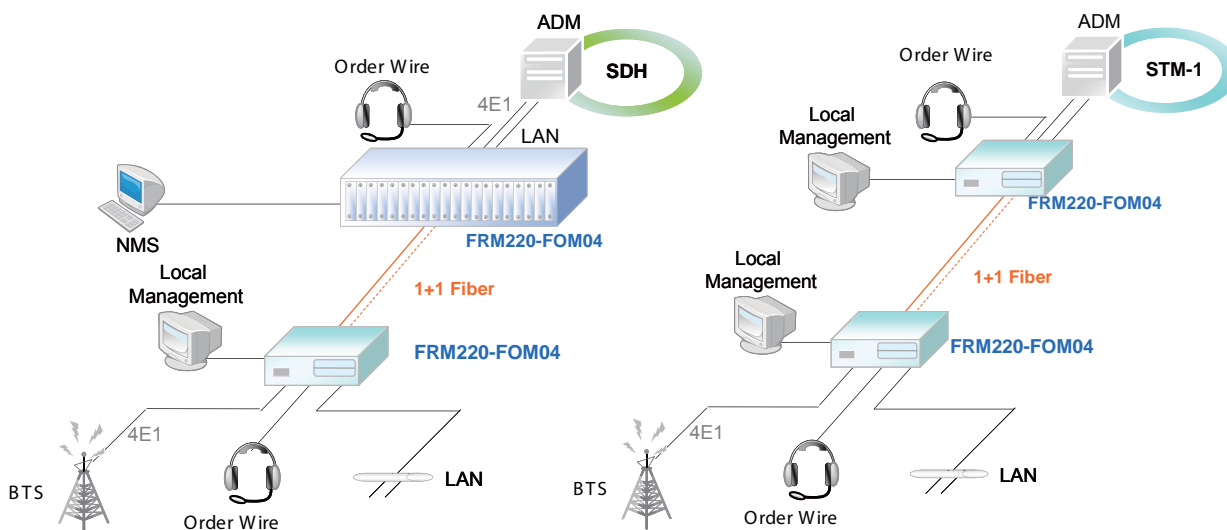
FRM220-FOM04 is a modular design for 4xT1 + Fast Ethernet multi-service to dual strand fiber PDH multiplexer. FRM220-FOM04 provides T1 transmission transparently, pure 100Mbps Fast Ethernet simultaneously. The fiber optic line is based on the SFP technology that allows a flexible use of Multimode or Single mode lines and enable the support of different wavelengths and distances. The use of bi-directional SFPs maximizes the utilization of the fiber optic line and results in saving line costs. The multiplexer is equipped by default with redundant AC and DC power supplies for redundant operation. With SNMP and Web-based management in the FRM220, the Network administrator can monitor, configure and control the activity of each card in the chassis.

Features

- 4 channels unframed E1/T1
- 10/100Base-TX Ethernet
- Auto MDI/MDIX
- Auto-Negotiation or Force mode
- Supports flow control
- Supports 9K jumbo packets
- Supports Link fault pass through (LFP)
- 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
- Loopback test on E1/T1, LAN, RS232, fiber ports
- Supports Dying Gasp
- Supports local or remote In-band management (Monitor or Configure status) by SNMP manager and console port.
- Supports Order wire Ear / Microphone port.
- Supports On-Line F/W upgrade.

E1/T1 ports	Unframed (transparent)
Framing	E1: 2.048 Mb/s, T1: 1.544 Mb/s
Bit Rate	E1: AMI/HDB3, T1: AMI/B8ZS
Line Code	E1: Unbalanced 75 ohms (BNC cable)
Line Impedance	E1: Balanced 120 ohms (RJ-45)
	T1: Balanced 100 ohms (RJ-45)
Receiver sensitivity	Short haul
"Pulse" Amplitude	Nominal 2.37V +/- 10% for 75 ohms
	Nominal 3.00V +/- 10% for 120 ohms
	Nom
"Zero" Amplitude	+/- 0.3V
Transmit Frequency Tracking	w/external clock card option
Internal Timing	+/- 30 ppm
Jitter Performance	According to ITU-T G.823
Performance monitoring	According to ITU-T G.821
Standard	ITU-T G.703, G.704, G.706 and G.732
Interface Connectors	RJ-45, BNC
Test Loops	LLB (Local Loop Back)
	NELB (Near End Loop Back)
	RLB (Remote Loop Back)
	RRLB (Request Remote Loop Back)
Ethernet	
Interface Type	10/100Base-TX
Connector	RJ-45
Standard	IEEE 802.3, 802.3u
Duplex modes	full/half
Test	Loop back test
Indications	FX1 Link, FX2 link, E1/T1 Mode/Link/Loopback test, Order wire phone indicator, LAN Link/Speed.
Power Input	AC adapter, 12VDC
Dimensions	88x42x139mm (DxWxH)
Temperature	0 ~ 50°C (Operating), -10 ~ 70°C (Storage)
Humidity	10 ~ 90% RH (non-condensing)
Certifications	CE, FCC, RoHS

In-band Managed 4E1+100Mbps Ethernet Fiber Multiplexer



FRM220-FOM04 can only be inserted in CH02M and CH20 Chassis.

Ordering Information

FRM220- Optional card

FOM04

Example: FRM220-FOM04