



The TDMoverIP device is mainly used to provide 4 service card slots on the IP network. It can be inserted into the E1 module (4 E1 interfaces), voice module (4/8/16 FOX/FXS interface), V.35 module (2 channels). V.35 interface), serial interface module (4-ch RS232/422/485 interface); maximum capacity can be filled in 4 slots. Enables operators and enterprises to seamlessly and reliably connect TDM devices and user Ethernet on a standard low-cost wireless or wired Ethernet/IP fabric with no impact on voice quality. TDM over IP is transparent to TDM signals, ensuring that any device with a physical E1 interface is seamlessly connected, such as PBX, mobile base stations, SS7 signaling devices and voice mail systems. Can be used in IP-based communication systems such as LAN, WAN, MAN, and wireless networks. It is with 4 slot service card, two 100/1000M Ethernet ports, one 100/1000M Ethernet optical port, and one console management interface.

Provide 4 slots plug-in modules:

- 4xunFramed E1 module (75Ω) / (120Ω)
- 4xFXO/FXS/EM2-4/Magnet telephone module
- 8xFXO/FXS/2 line audio/Magnet telephone module
- 16xFXO/FXS/2 line audio/Magnet telephone module
- 2xV.35/V.24 (2.048M Fixed speed) module
- 2xV.35 (N*64K N=1-32) module
- 4xRS232/422/485 module

◆ E1 interface

Standard: conform to G.703 standard
 Code rate: 2.048Mbit/s±50ppm
 Code type: HDB3
 Impedence: 75Ω (unbalance) / 120 (balance)
 Connector: BNC (unbalance) / RJ45 (balance)
 Jitter tolerance: conform to G.742 and G.823

◆ Ethernet interface(10/100M)

Interface rate: 10/100 Mbps, half/full duplex auto-negotiation
 Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
 MAC Address Capability: 4096
 Connector: RJ45, support Auto-MDIX

Features:

- Provide Console (CLI) and WEB management;
- Provides 4 slot service card, 2*100/1000M Ethernet ports, and 1*100/1000M Ethernet SFP port;
- E1 port can be 75Ω or 120Ω;
- Transparent transmission of unframed/framing E1 (N*64K) signals over IP networks, in compliance with G.703 regulations;
- The clock recovery adopts the unique clock algorithm technology, the frequency reproduction is stable, the jitter and drift are small, and the jitter and drift of the recovered clock are in accordance with G.823/G.824 and G.8261;
- High transmission efficiency, low transmission delay; Ethernet packet length can be set, support long packet; support VLAN setting;
- Support package loss indicator function for E1 transmission line;
- Local and remote E1 loop and local E1 enable function;
- High efficiency transmission, up to 90% bandwidth utility ratio;
- Support WEB network management for online upgrade of local and remote device software and hardware;

V.35 interface

Interface rate: 2048Kbps
 Interface Standard: Compatible with V.35 Standard
 Connector: DB25
 Connect Mode: DCE
 Clock Type: G.703 restored clock, Internal clock

FXS Phone Interface

Ring voltage: 75V
 Ring frequency: 25HZ
 Two-line Impedance: 600 Ohm (pick up)
 Return loss: 40 dB

FXO Switch Interface

Ring detect voltage: 35V
 Ring detection frequency: 17HZ-60HZ
 Two-line Impedance: 600 Ohm (pick up)
 Return loss: 40 dB

Working environment

Working temperature: -10°C ~ 50°C
 Working Humidity: 5%~95 % (no condensation)
 Storage temperature: -40°C ~ 80°C
 Storage Humidity: 5%~95 % (no condensation)

Function	Multi-service TDM over IP
Ports	One SFP optic port, two Ethernet ports, 4 slots
Power	AC220V or DC-48V (Power optional) , Support power back up
Dimension	(LxWxH) 485*138*45mm 1U rack
Weight	2.5Kg/pcs

