

## TDM-IPMUX

## Overview

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, TDM-IPMUX-01/02 adopts the innovative TDM over IP technology, with IP circuit emulation that supports transportation of 01/02 E1 over FE port. The uplink ports and user data ports are IEEE 802.3 compliant, 10/100 auto-sensed Ethernet ports.



TDM-IPMUX-01



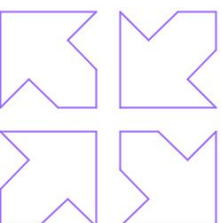
TDM-IPMUX-02

State-of-the-art design provides the highest availability with the accurate timing signal and data bit stream reconstruction. Predefined system parameter profiles that according to different application requirement; ultimately simplify the installation process and saving the maintenance cost.

Telecom and Enterprise users can save a lot of access and equipment costs and generates new revenue by offering different types of service over existing Ethernet networks. It is also suitable for connecting to the wireless equipment to achieve fast deployment of E1 services. One particular application is to build E1 links with low cost Wireless LAN bridges, replacing much more costly microwave radios. Operators can use TDM-IPMUX-01/02 to provide legacy TDM services over wired or wireless packet network

## Product Characteristics

1. Support IETF RFC4553 SAToP protocol, Ethernet encapsulation support IP/UDP.
2. Provide 4 FE electrical ports and 1 FE optical port, 2 uplink ports, 2 user data ports or monitoring ports, optical port can be used for uplink or user data.
3. User-friendly Web server supported for easy setup and maintenance
4. Support SNMP V1/V2 network management



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5. E1 clock supports 3 mode: local clock, adaptive and loopback
6. E1 service support lossy and lossless protection
7. Ethernet built-in layer 2 switch, support VLAN (port based, 802.1Q based and QinQ based), QoS(port based,802.1P based, MAC based and TOS based).
8. Ethernet support IEEE 802.3x, RSTP (802.1w), LLDP, CDP, Ethernet ring protection, OAM and MAC address automatic learning
9. Ethernet packet size up to 9720byte
10. Point to point and point to multipoint supported
11. Local Ethernet port throughput limiting
12. Software and hardware online upgrade

### E1 Interface Features

Comply with ITU-T G.703 recommendation

End-to-end delay (minimum delay setting):  $\leq 10\text{ms}$

Output frequency offset (adaptive timing, stabilized):  $\leq 25\text{ ppm}$

Output jitter (adaptive timing):  $\leq 0.1\text{UI}$

Interface Impedance: default : E1-120 $\Omega$ ; Supporting 75 $\Omega$

Connector: RJ-48C

### Ethernet Port

Comply with IEEE 802.3, 802.1Q, 802.1ad, 802.1P and relative other protocol.

Operating Mode : 10M/100M Adaptive, Half/Full Duplex Adaptive

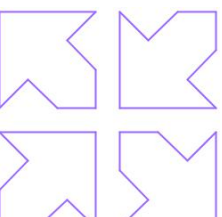
MTU: 9720byte

Connector : 100M Electrical port: RJ45

100M Optical Port: LC

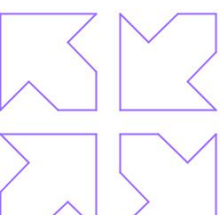
Interface no.: 100M Electrical Port : 4

100M Optical Port: 1



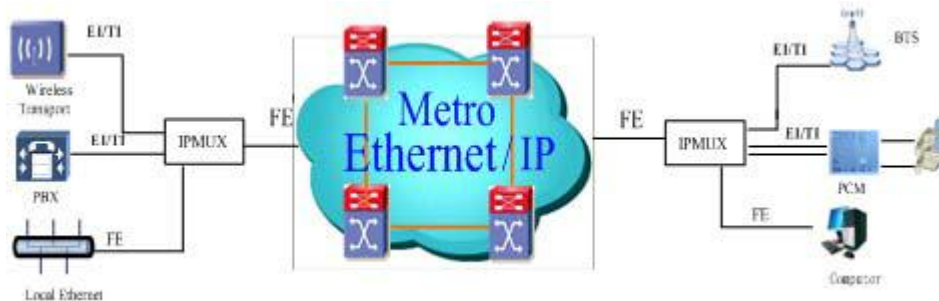
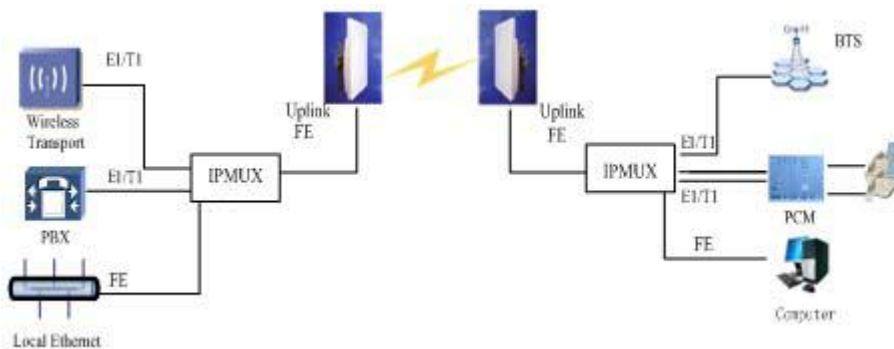
## Technical Specification:

Item	Description	
Model	TDM-IPMUX-01/02	2 UPLINK, 1/2 E1
Service card	Ethernet uplink card	4 FE electrical ports and 1 FE optical port
		Comply with IEEE 802.3, 802.1Q, 802.1P, 802.3x
		Speed and duplex auto-negotiation or manual
	E1 Interface	TDM-IPMUX-01: 1 E1 ports
		TDM-IPMUX-02: 2 E1 ports
Power	Supply	AC or DC
		DC: -48V (-32V ~ -72V)
		AC: 220V (165V ~ 265V)
	Consumption	≤40W
Working Environment	Temperature	0~ 50°C
	Relative Humidity	≤90% (non-condensing)
Dimension	W x H x D (mm):	185 x 35 x 136.5 (mm)



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## Typical Application:



## Order Information:

<b>TDM-IPMUX-01-AC</b>	1*E1,4*10/100Base-Tx,1*SFP with 220VAC Power Supply
<b>TDM-IPMUX-01-DC</b>	1*E1,4*10/100Base-Tx,1*SFP with -48VDC Power Supply
<b>TDM-IPMUX-02-AC</b>	2*E1,4*10/100Base-Tx,1*SFP with 220VAC Power Supply
<b>TDM-IPMUX-02-DC</b>	2*E1,4*10/100Base-Tx,1*SFP with -48VDC Power Supply