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PRODUCT BRIEF

TDMOIP-16E1

TDM OVER IP DEVICES



Features

- Provide 5 GE electrical ports and 1 GE optical port, 6 GE ports serve as network uplinks or users ports, Anyone of the 5 GE electrical ports may act as a NM port
- Support Ethernet spanning tree protocol which enable normal work and protection in ring and mesh topology, protection resume in a short time
- User-friendly Web server supported for easy setup and maintenance, alarm log provided.
- Support SNMP V1/V2 network management
- Ethernet built-in layer 2 switch, support VLAN, comply with IEEE 802.3x, 802.1P
- Provide two pluggable E1 cards, each card supports 8 E1/T1s
- Point to point and point to multipoint supported
- Stable E1 clock recovery, low jitter and wander
- Low processing delay for E1 channels, high bandwidth usage efficiency
- Resist to packet loss, with PCM frame synchronization protection
- User definable encapsulation packet size for different application
- Support Ethernet encapsulation and UDP/IP protocol encapsulation.
- Support VLAN settings for E1 service and in band VLAN management.
- Enough jitter buffer to resist packet delay variation (PDV)
- Local Ethernet port throughput limiting, assuring E1 QoS
- 120Ω balanced E1/T1 port, RJ-45 connector, support 75Ω unbalanced port through outside converting cable.
- Support cascade concatenate for more than 16 E1 ports
- Software and hardware online upgrade
- Power supply redundancy
- POE power supply supported by power module with 220V AC input and 55V DC output.

Product Description

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, TDMOIP-16E1 adopts the innovative TDM over IP technology, with IP circuit emulation that supports transportation of 8~16 E1s and 5 GE electrical ports and 1 GE optical port.

The uplink ports and user data ports are IEEE 802.3 compliant, 10/100/1000M auto-sensed Ethernet ports.

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.

TDMOIP-16E1 could work together with other members in TDMOIP family such as TDMOIP-2E1, TDMOIP-4E1 and TDMOIP-8E1 to run legacy E1 services.

Telecom and Enterprise users can save a lot of access and equipment costs and generates new revenue by offering different types of services over their packet-switched infrastructure.

It is also suitable for connecting to the wireless equipment to achieve fast deployment of E1/T1 services.

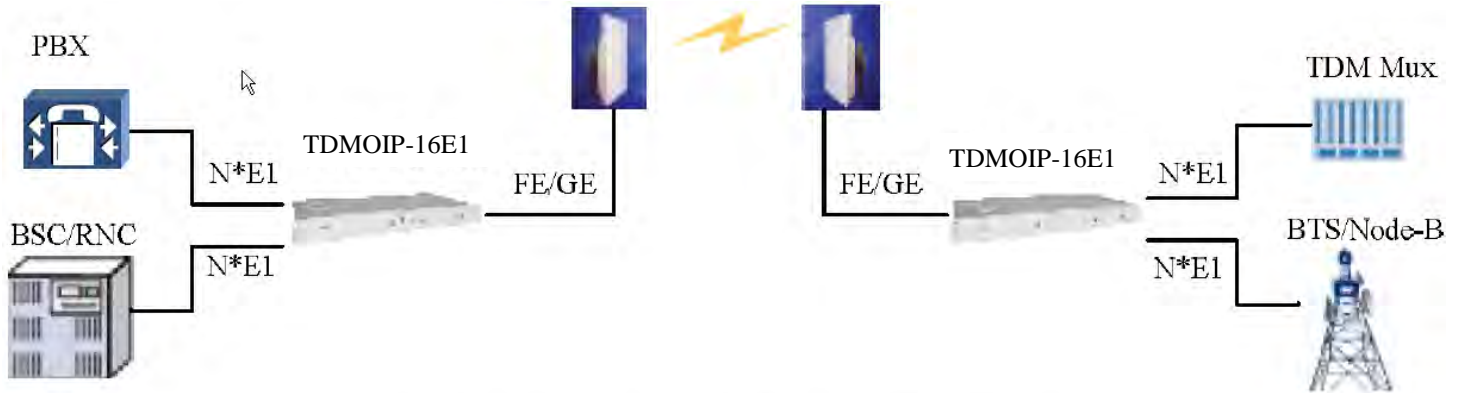
One particular application is to build E1/T1 links with low cost Wireless LAN bridges, replacing much more costly microwave radios.

Operators can use TDMOIP-16E1 to provide legacy TDM services over wired or wireless Ethernet/IP network.

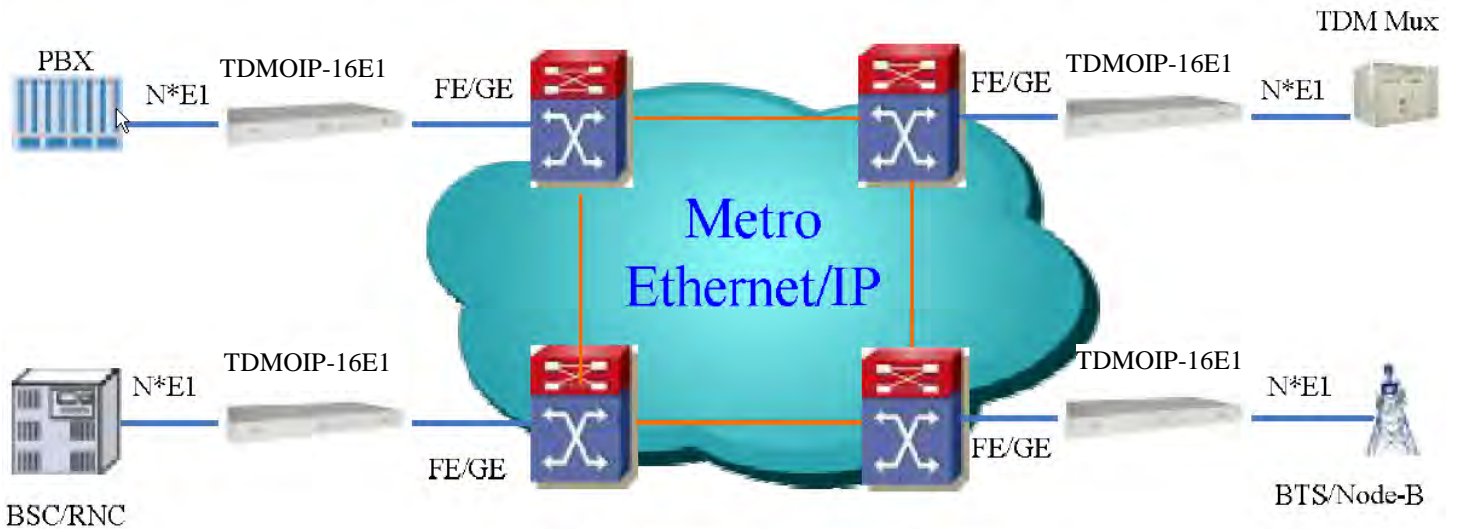
Technical Specifications :

Item	Description	
Model	TDMOIP-16E1	5 GE electrical ports and 1 GE optical port, 16 E1s
Interfaces	IP ports	5 GE electrical ports and 1 GE optical port Comply with IEEE 802.3, 802.1Q, 802.1P Speed and duplex auto-negotiation or manual
	E1 Ports	16 E1 Ports Supported Comply with G.703 Impedance: E1-120Ω or 75Ω
NM port	Same as IP ports	Web server and SNMP management supported
Power	Supply	Pluggable dual power supply
		2DC or 2AC or DC+AC
		-48V~-72VDC or 100~240VAC
	Consumption	≤15W
Working Environment	Temperature	0~ 50°C
	Relative Humidity	≤90% (non-condensing)
Dimension	W x H x D (mm):	440 x 44 x 231

Typical Application



(A) Typical Application in Wireless Network



(B) Typical Application in Wired Network