

Compact TDM over IP Converter



Introduction :

TSM-448 is a cost-effective solution for the traditional telecom services migrate to the IP packet network, the TDMoIP adopts the innovative TDM over IP technology, it transports the legacy E1 data through the existing Ethernet or IP network. Desktop design is good fit to end user office.

The TSM-448 is the new generation of the TDM over IP equipment with IP circuit emulation that supports transportation of 1 / 2 / 4 / 8 x E1 and 5 x Ethernet ports (4 electrical and 1 optical). Any one of these Ethernet ports can be defined as uplink port and the rest will become as downlink (user data) port, and all are IEEE 802.3 compliant, 10/100Mbps auto-sensed. It enhances the flexibility for choosing either electrical or optical port for network fitting.

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 application is to build E1 links with low cost Wireless LAN bridges, replacing the costly microwave radios. Operators can use 8E1 TDM over IP to provide legacy TDM services over wired or wireless packet network.

Features:

Providing up to 8 E1 interfaces;

Provide 4 FE electrical ports plus 1 FE optical port, definable for 1 uplink, and the rest becomes downlink ports;

Having the high transmission efficiency and the transmission delay can be adjusted;

Supporting point to point and point to multipoint application;

Supporting E1 framed, unframed setting;

Supporting E1 loss alarm indication;

Adopting UDP encapsulation, and supporting different types of Ethernet transmission channels;

Supporting Ethernet PING package function;

Ethernet supports 10/100M self-adaptive, half/full duplex self-adaptive;

Supporting E1 package QoS assurance;

The equipment firmware and software support remote update function;

Support AC220V or DC-48V (optional).

Specification:

- E1 Interface
 - Bit rate: 2.048Mbps ±50ppm
 - Code type : HDB3 code, G.703 standard
 - Input impedance: 75Ω or 120Ω
 - Frame structure: G.704, G.706
 - Jitter: G.742, G.823
- Power Supply
 - Input voltage: -48Vdc or 220Vac
 - Voltage range: -36Vdc ~ -72Vdc, 180Vac ~ 260Vac
 - Power consumption: <5W
- Operation Environment
 - Working temperature: -10°C ~ 50°C
 - Working humidity: 5% ~ 95 % (non-condensed)
 - Storage temperature: -40°C ~ +80°C
- Ethernet Optical Interface
 - Bit rate: 155Mbps ±50ppm
 - Output optical power: ≥-15dBm
 - Receiving sensitivity: ≤-35dBm
 - Optical wavelength: 1310nm/1550nm
 - Connector: FC/SC
- Ethernet Electrical Interface
 - Bit rate: 10/100Mbps, half/full duplex auto
 - Standard: IEEE 802.3, IEEE 802.1Q (VLAN)
 - Connector: RJ45
- Mechanical Structure
 - Dimension : 224mm x 148mm x 44mm
 - Net weight: 0.6Kg

Order Information

Model	Interfaces
TSM-448	4 x E1 + 5 x FE



Diagram 1: Point to point

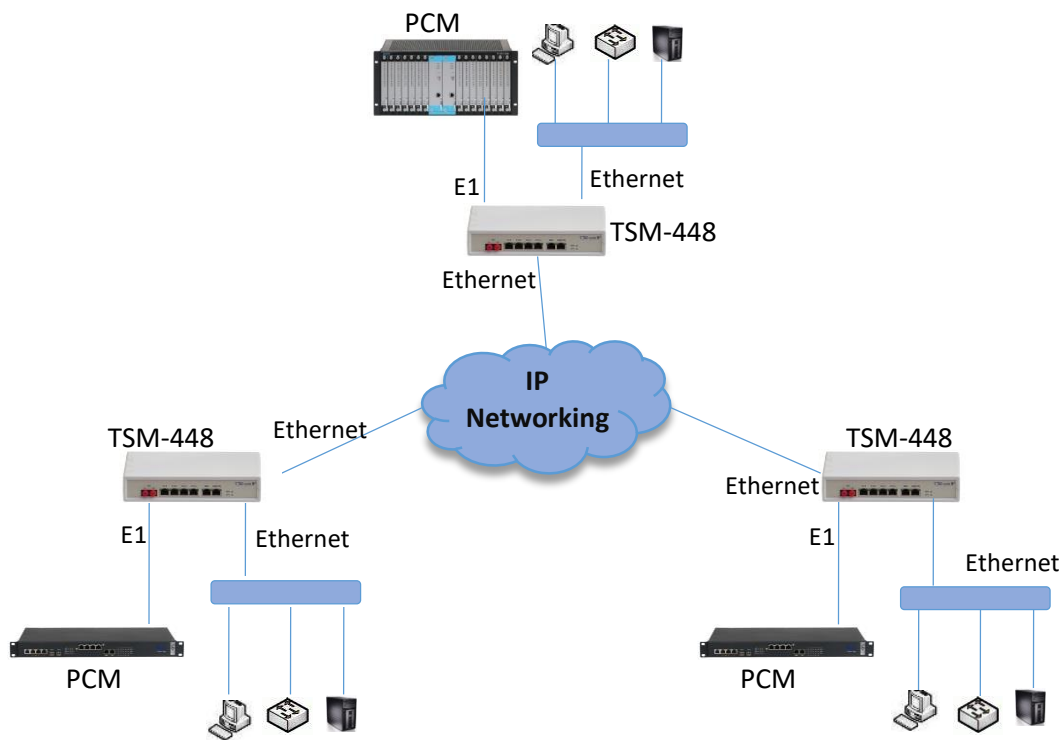


Diagram 2: Point to multipoint