E1 over Ethernet Multiplecer

(TDM over IP)

Model:AZ-4E1-IP

Functions:

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, AZ-4E1-IP adopts the innovative TDM over IP technology, it transports the legacy E1/T1 data through the existing Ethernet or IP network.

AZ-4E1-IP is the new generation of the TDM over IP equipment with IP circuit emulation that supports transportation of four E1/T1 and two local Ethernet ports over Ethernet or IP network. The uplink ports and user data ports are IEEE 802.3 compliant, 10/100BaseT auto-sensed Ethernet port.

The 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/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 AZ-4E1-IP to provide legacy TDM services over wired or wireless packet network.

Features:

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
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、8021.1P based、MAC based and TOS based).
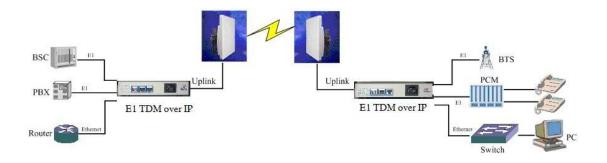
8. Ethernet support IEEE 802.3x, RSTP (802.1w), LLDP, CDP, Ethernet ring protection, OAM and MAC address automatic learning
9. Ethernet packet size up to 9720byte
10. Point to point and point to multipoint supported
11. Local Ethernet port throughput limiting
12. Software and hardware online upgrade
13. Power supply redundancy, support double power AC+DC

Technical Specifications:

Item	Description	
Model	AZ-4E1-IP	4 E1s/T1s, 4 FE electrical ports and 1 FE optical port
Interfaces	Uplink	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/T1 Port	4 E1 or 4 T1 Ports Supported Comply with G.703 Impedance: E1-120Ω/T1-100Ω or 75Ω
Power	Supply	-48V DC + 220V (110V) AC dual power supply
	Consumption	≤10W
Working Environment	Temperature	0~ 50°C
	Relative Humidity	≤90% (non-condensing)
Dimension	W x H x D (mm):	440 x 44 x 230

Typical Application:

Point to Point Application