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E1 over Ethernet Converter, TDM over IP Multiplexer

E1/T1 over Ethernet Multiplexer, E1 TDM over IP

SPOTLIGHT:

1 x E1 G.703 TDM over IP | **E1 over IP** | E1 to Ethernet converter | mini type unit for small applications where only 1 E1 is needed and installation space is limited.

DESCRIPTION :

EthMux V801 is used to setup 1 transparent E1 channel over LAN or IP networks

The **EthMux V801** has many optional parameters, which can be modified by the user to suite different application requirements. Please read this manual carefully before installing the product.

It is well known that the E1 signal comes from PCM technology which is TDM in nature. It transmits information in a constant bit rate of E1_2048kbit/s, TDM technology occupies fixed transmission bandwidth, with QoS features suitable for real-time applications such as voice and video. The QoS features include short and stable transmission delay, low jitter and wander, etc.

The most widely used application of **EthMux V801** is to set up point to point wireless E1 links using low cost wireless LAN bridges. **EthMux V801** can work with most LAN bridges on the market.

Until recently, voice and data were, and still are to a large extent, transported over two separate networks. But the requirement for both types of information to be carried over a unified network is growing rapid. Packets over SONET/SDH techniques to integrate date into the TDM network have been around for many years. But for voice over packet based data networks, most of the efforts are spent on creating special equipment that packets voice or video signals, such as VoIP techniques.

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The **EthMux V801** can be used to emulate transparent E1 channels over an Ethernet with adequate QoS, so that most of the existing E1 based applications can be readily setup over Ethernet LANs and WANs. One particular suited application is to build E1 links with low cost wireless LAN bridges, replacing much more costly microwave radios.

Both Web Server and SNMP management are supported through anyone of two Ethernet ports. The management has four sections: Status, Line Test, Configuration and System.

FEATURES:

1.   User-friendly Web server supported for easy setup and maintenance
2.   Point to point and point to multipoint supported
3.   E1/T1 Port supported, E1 or T1 easy selected by Web Manager
4.   Uplink ports 1+1 backup supported
5.   Stable E1/T1 clock recovery, low jitter and wander
6.   Low processing delay for E1/T1 channels, high bandwidth usage efficiency
7.   Resist to packet loss, with PCM frame synchronization protection
8.   User definable encapsulation packet size for different application
9.   Enough jitter buffer to resist packet delay variation (PDV)
10. Local Ethernet port throughput limiting, assuring E1/T1 QoS
11. Local and remote E1/T1 LOS and AIS and packet loss indication for trouble-shooting and maintenance
12. Support cascade concatenate for more than E1/T1 port

Specification:

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Item	Description	
Model	EthMux V801	2 Uplinks(1+1), 1 E1/T1
Interfaces	Uplink	2 Uplink Ports Comply with IEEE 801.3 Speed and duplex auto-negotiation or manual Web Manager Supported
	E1/T1 Port	1 E1 Port Comply with G.703 Impedance: E1-120Ω or 75Ω/T1-100Ω
Power	Supply	A	DC -48V(-36V ~ -72V)
		B	AC ~220V(100V ~ 260V)
	Consumption	≤3W
Working Environment	Temperature	0~ 50°C
	Relative Humidity	≤90% (non-condensing)
Dimension	W x H x D (mm):	185x35x 136.5

Typical Application:

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Point to Point Application

Point to Multipoint Application