Brief Introduction

As a cost effective solution for the traditional telecom services migrate to the IP packet networking technology, H0EL-EthMux V8 adopts the innovative TDM over IP technology, it transports the legacy E1 data through the existing Ethernet or IP network.

H0EL-EthMux V8 is the new generation of the TDM over IP equipment with IP circuit emulation that supports transportation of eight E1 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 services. One particular application is to build E1 links with low cost Wireless LAN bridges, replacing much more costly microwave radios. Operators can use H0EL-EthMux V8 to provide legacy TDM services over wired or wireless packet network.

Features

1. User-friendly Web server supported for easy setup and maintenance
2. Support SNMP V1 and V2 network management
3. Point to point and point to multipoint supported
4. Eight E1 Ports supported
5. Uplink ports 1+1 backup supported
6. Stable E1 clock recovery, low jitter and wander
7. Low processing delay for E1 channels, high bandwidth usage efficiency
8. Resist to packet loss, with PCM frame synchronization protection
9. User definable encapsulation packet size for different application
10. Support Ethernet encapsulation and UDP/IP protocol encapsulation.
11. Support VLAN settings for E1 service and in band VLAN management.
12. Enough jitter buffer to resist packet delay variation (PDV)
13. Local Ethernet port throughput limiting, assuring E1 QoS
14. Local and remote E1 LOS and AIS and packet loss indication for trouble-shooting and maintenance
15. Support cascade concatenate for more than 8 E1 ports

Technical Specifications

Item	Description	
Model	H0EL-EthMux V8	2 Uplink (1+1), 8E1s, 2 User Data Ports
Interfaces	Uplink	2 Uplink Ports Comply with IEEE 802.3 Speed and duplex auto-negotiation or forced
	E1 Port	8 E1 Ports Supported Comply with G.703 Impedance: E1-120Ω or 75Ω
	User Data Port	2 User Data Ports Supported Comply with IEEE 802.3 Speed and duplex auto-negotiation or forced Web Manager Supported
Power	Supply	Pluggable dual power supply
		2DC or 2AC or DC+AC
		-48V DC or 100~240V AC
	Consumption	≤10W
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
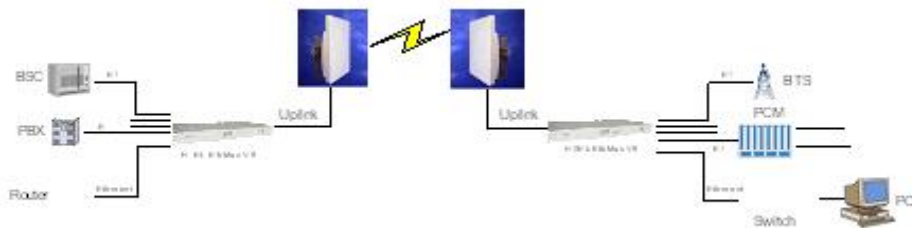
Point to Point Application
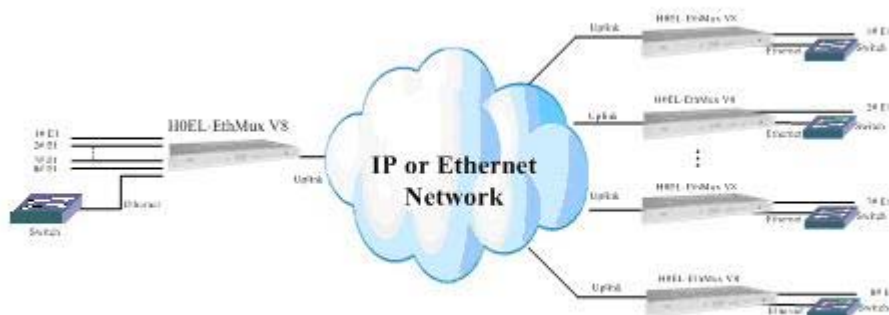
Point to Multipoint Application

Interoperability Table with Wireless Bridges

LOGO	Manufacturer	Place	Model
	MOTOROLA	USA	CANOPY 5700BH, 5700BH20, BH45, Gemini series, Spectra series etc.
	Alvarion	Israel	BREEZENET DS.11, 28B,LBetc
	Proxim	USA	Tsunami™ series, QuickBridge20etc
	Wi-Comm United	Canada	Ultima 3 series Libra 5800 series
	Infinet Wireless	Russia	RWR 5000mini
Note: More wireless bridges are supported			