Huahuan	**H0EL-EthMux V0 E1 over Ethernet Multiplexer (2E1)**

Brief Introduction

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

H0EL-EthMux is the second generation of the TDM over IP equipment with IP circuit emulation that supports transportation of two E1 and two local Ethernet ports over the IP network. The uplink port 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 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 generate new revenue by offering different types of service over existing Ethernet networks. It is also suitable for connecting to 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 to provide legacy TDM services over wired or wireless packet network.
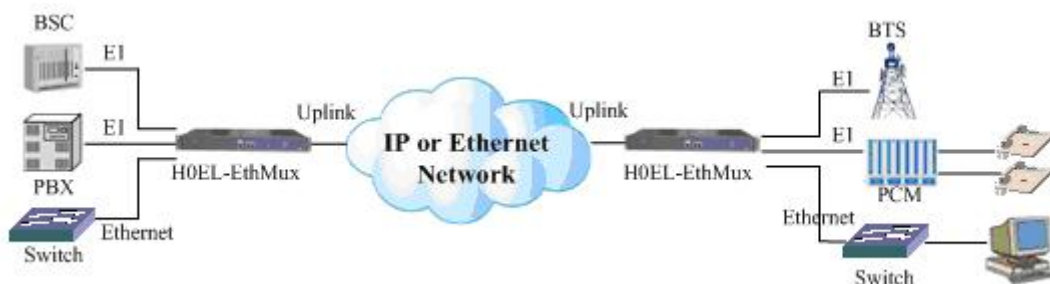
Features

1. Stable E1 clock recovery, low jitter and wander
2. Low processing delay for E1 channels, high bandwidth usage efficiency
3. Resist to packet loss, with PCM frame synchronization protection
4. User definable packet size from 128 bytes up to 1408 bytes
5. Enough jitter buffer to resist packet delay variation (PDV)
6. Local Ethernet port throughput limiting, assuring E1 QoS
7. Local and remote E1 LOS and AIS and packet loss indication for trouble-shooting and maintenance
8. Adaptive E1 port impendence (75Ω and 120Ω) for coax and twisted pair cables
9. User selectable level 2 (Ethernet) or level 3 (IP) encapsulation options
10. Quick setup hardware mode switch
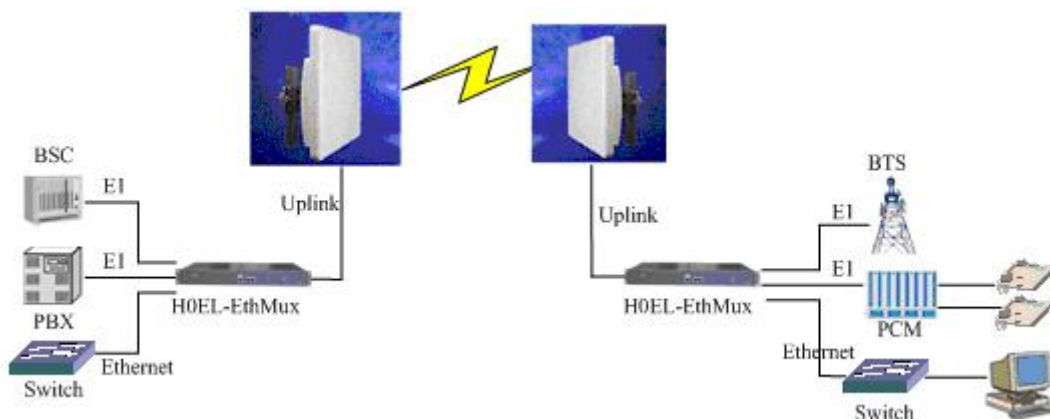11. Support cascade concatenate for more than 2 E1 ports

Technical Specifications

Item	Description	
Model	H0EL-EthMux V0	1 uplink, 2E1s
Interfaces	Uplink	Comply with G.703
	E1 Port	2 E1 Ports Supported Comply with G.703 Impedance: 75Ω and 120Ω
Console	RS232, DB9F	9600-8-N-1
Power Supply	AC Type	220V (165~ 265V)
	DC Type	−48V (−36V~-72V)
		+24V(+18V~+36V)
	Consumption	≤10W
Working Environment	Temperature	0~ 50℃
	Relative Humidity	≤90% (non-condensing)
Dimension	W x H x D (mm):	440 x 44 x 209

Typical Application

Typical Application in Wired Ethernet

Typical Application in Wireless Ethernet

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			