

EthernetMux



OVERVIEW

EthernetMux is designed for the Motorola PTP 300/500/600 wireless Ethernet Bridge.

The fast deployment of LANs and WANs to interconnect cities and corporations is reaching a mature phase. However, interconnecting WANs with a traditional IP network in a cost effective manner still remains difficult. The use of VoIP services has grown significantly in recent years, spurring the need for a cost effective TDM over IP solution. This need can be addressed elegantly by the EthernetMux508E1/ 504E1-V2 .

FEATURES

EthernetMux is designed as an expansion to Motorola PTP300/500/600 series wireless Ethernet Bridge.

- Transmitting framed and non framed (transparent mode) E1 signal through IP network - clear G.703 E1's
- Two local 10/100BaseT Ethernet ports
- High transmission speed with low latency (< 10 msec)
- Advance clock synchronization options
 - a. Through - Network recovered clock - Clocking signal regenerated over the network Master mode
 - b. Loop - E1 loop back clock - Working in Slave mode synchronizing with incoming E1 receive (In) line clock
- User selectable level 2 (Ethernet) or level 3 (IP) packaging options. Supports IP layer 2 -Transmitted package based on the IP address, through switches, routers and network equipment.
- Stable E1 frequency recovery, low jitter, low wander
- Resist to packet loss, with PCM frame synchronization protection
- General UTP Ethernet interface, 10M/100M auto negotiation
- High bandwidth efficiency
- User definable packet size from 128 bytes up to 1408 bytes
- Priority QoS for E1 channels over other data
- Local Ethernet port through put bandwidth limiting, assuring E1 QoS
- Local and remote E1 port LOS and AIS indication for troubleshooting
- Packet loss indication
- Dual power supply, AC/OC selectable
- IEC60950 certified

SPECIFICATIONS

Physical Dimensions

- Width × Height × Depth : 440 × 44 × 231 mm

Weight

- 2.5 kg

Power Supply

- AC : 110V~240V/50Hz OR DC: -48V ~ -54V (optional) or dual power supply
- Power Consumption : ≤70W

Capacity

- Supports 4~8 E1 ports, one 100/1000Base-Tx uplink Ethernet port and two 10/100Base-Tx local data Ethernet ports.

E1/T1 interface

- Comply with ITU-T G.703 recommendation
- E1 port impedance E1-120Ω for twisted pair cables or 75Ω for coax (The RJ45 E1-120Ω are default for ports)
- End-to-end delay (minimum delay setting) ≤10ms
- Output frequency offset (adaptive timing, stabilized) ≤5 ppm
- Output jitter (adaptive timing) ≤ 0.1UI

10/100Base-Tx port

- Comply with IEEE 802.3
- 10M/100M Adaptive
- Half/Full Duplex Adaptive
- Support 802.1Q MAC
- Uplink ports 1+1 backup supported
- Two user data ports supported. And Web manager supported through anyone of two user data ports.

Operating condition

- Temperature: (0~45) °C
- Humidity : ≤90% (non-condensing)



Campus WAN Voice Application



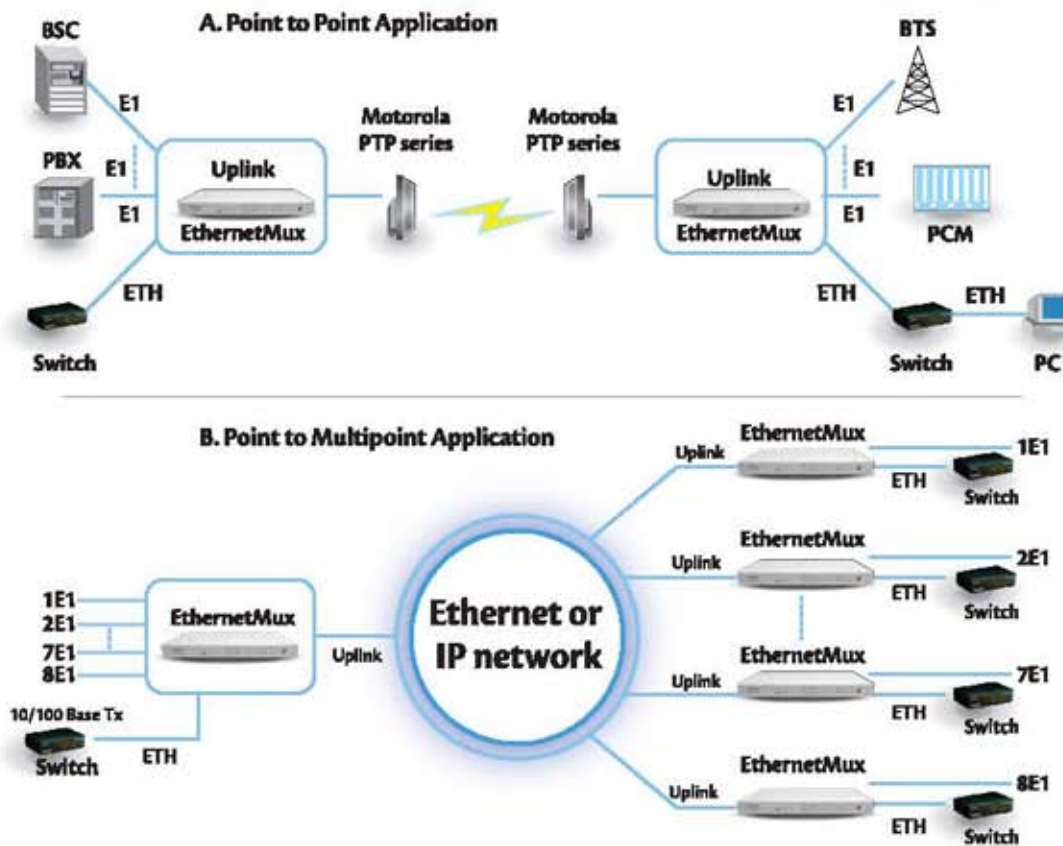
Long Distance Telephony - VoIP

Motorola PTP series with EthernetMux is a great candidate for providing high-quality, long distance telephone service. By leveraging on current IP network and making use of voice compression based on TDM, call setup time can be reduced through the use of C7/SS7 and other signaling schemes transparently. This protects the investment on the traditional telephone equipment and provides services to more areas using the wireless IP infrastructure.

Enterprise IP PBX Extension

The EthernetMux allows you to converge existing traditional PBXs with your IP network; cheaply, easily and seamlessly. This means no retraining of the end users because the integrity of the linkage is preserved, without losing PBX features like conference calling, call forwarding, and caller ID. This is possible because the PBX-specific signaling is supported.

Wireless E1 Backhaul



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