

WIBORNE, INC.

MULTIPLEXER SOLUTION SERIES

ETHERMux: 8/16 E1/T1 OVER IP

Evolutionary Convergence in Transmission of Real Time Voice/Video and Data over Ethernet Network

PRODUCT OVERVIEW

EtherMux is designed as a multi-service access platform for PDH over IP applications. E1 frames can be mapped/de-mapped into/from IP packets. An adaptive clock recovery method for Ingress PDH (PSN -> TDM) clock generation is implemented to support E1 (ITU-T G.823) Jitter performance.

COST-EFFECTIVE IP DEPLOYMENT (PDH OVER IP)

EtherMux provides cost-effective applications of traditional circuit-switched system over IP. With EtherMux, it is easy to interconnect existing phone systems over IP that are used to carry data, voice and video.

2G/3G/4G BACKHAUL DEPLOYMENT

With high precision clock recovery technology, EtherMux is capable of supporting 2G/3G/4G backhaul and provides smooth services.

TRANSPARENT TRANSMISSION

EtherMux can transparently transport proprietary signaling that are required to support PBX features, including call conference, call forwarding and SS7. Customer can easily apply and enjoy better integration of TDM and IP devices with lower network expense.

BYPASS INTERNATIONAL TOLL

With a pair of EtherMuxes and guaranteed internet bandwidth, it is sure to save cost dramatically, and to ensure the QoS of voice based on interconnections of TDM equipment.



FEATURES

- Support IETF RFC4553 Structure-Agnostic TDM over Packet (SAToP), Metro Ethernet Forum MEF8.
- 16 x E1 NRZ Serial Interface with LOS/AIS detection
- Use Raw Encapsulation method for PDH payload over IP packet.
- Support Circuit Emulation Service over IP.
- Comply with IETF draft standard for CESoPSN and SAToP; Metro Ethernet Forum MEF8 IA.
- Support both Point-to-Point and Point-to-Multipoint operation.
- Support 8 independent Adaptive Clock recovery block for Ingress PDH (PSN -> TDM) clock generation. Recovered clock jitter is compliant with ITU-T G.823 (E1 Jitter Control).
- Independent configurable jitter buffer depth to compensate up to 250ms of Packet Delay Variation.
- Lost packets processing / compensation via PW (Pseudo Wire) control field Sequence Number.
- PDH LOS detection triggered PW L field or payload AIS generation at Egress direction (TDM -> PSN).
- Configurable IEEE 802.3 DA/SA assignment.
- LED alarm display for E1/Power failure status.

SPECIFICATION

LINE INTERFACE

Port: up to 16 x E1 (ITU-T G.703)
Interface: RJ-48c (120 Ohm)
Line Coding: HDB3

ETHERNET INTERFACE

WAN Port: 1 x 100 Base-TX Ethernet
Interface: RJ-45

DIMENSIONS

H x W x D: 44 x 290 x 267.6 (mm)

MAIN POWER SUPPLY

AC: 85 ~ 264V @ 47 ~ 63Hz
(Optional) DC: -72V ~ -36V

ENVIRONMENT CONDITION

Ambient temperature: 0°C ~ 50°C (0°C ~ 65°C, optional)

Storage temperature: 0°C~ 85°C

Relative humidity: 5 ~ 95% non condensing

CONFIGURATION AND MANAGEMENT

RS-232 console port (Craft Terminal) or Telnet/SNMP-based management via NMS port.

ORDERING INFORMATION

Feature Options:

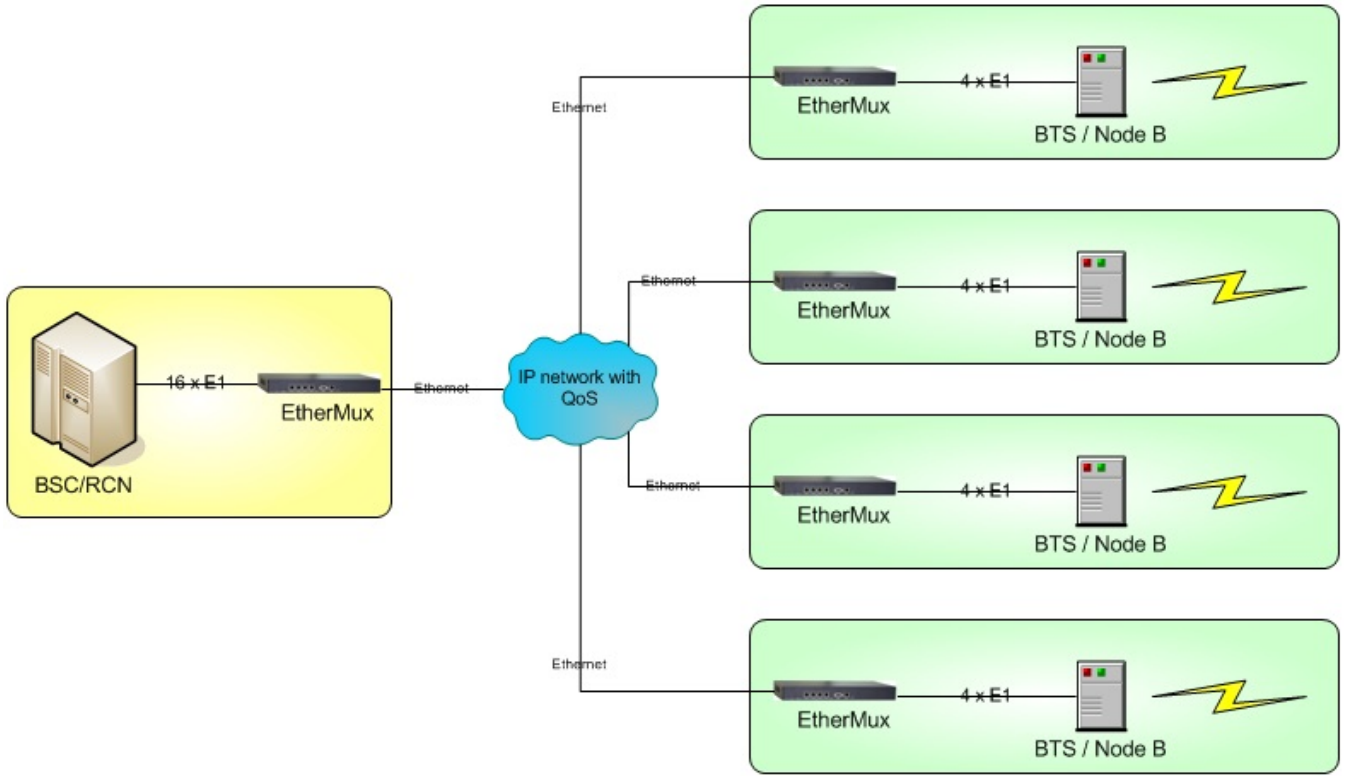
[**Line Interface**] 8x E1 16x E1

[**WAN Interface**] 1x Ethernet (100base-TX)

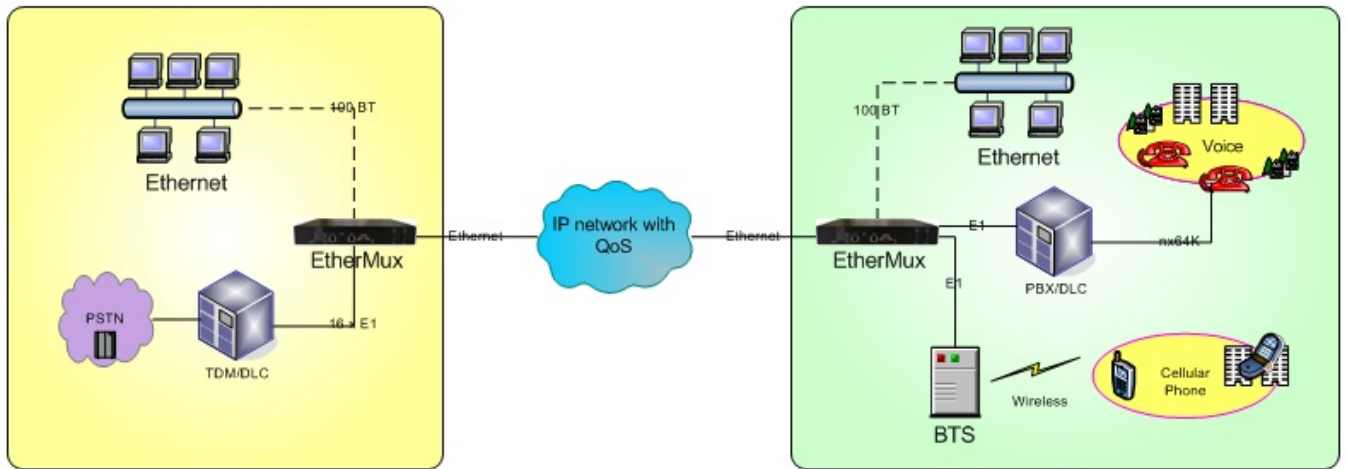
[**Management**] Craft terminal Craft terminal + SNMP-Based Management

[**Power**] 1x AC 1x DC 1x AC+ 1x DC

ETHERMUX APPLICATION



Point-to-Multipoint Application



Point-to-Point Application