

Optical Multiplexer with Optical Ethernet port

Product Overview

The OPTIMUX is part of Multi E1 and Fast Ethernet transmission system family, used to build a 150Mb/s optical point-to-point link. Based on an ASIC chip; it performs the transportation of 4/8/16 E1 and 3 fast Ethernet + 10/100M optical Ethernet port at full speed. It also provides an order-wire and an auxiliary UART interface for Management. The OPTIMUX offers a highly integrated solution for the perfect function, stable performance and convenience with low power consumption.



Key Benefits

- Merges the Ethernet and time-division multiplex (TDM) transmission to the same pipe.
- Provides 4/8/16 E1 and 3 fast Ethernet + 10/100M optical Ethernet port
- The standard E1 interfaces comply with ITU-T G.703, G.823 and G.742.
- Supports either auto-negotiation or hardware configuration selection of the Ethernet operation.
- The Ethernet interface supports VLAN and Flow Control function.
- Real-time Monitoring and all necessary alarm display for easy management.
- Supports Local and Remote Loop-back Test.
- Uses standard telephone set as order-wire.
- Provides one transparent RS232 interface for user's data links.
- Provides RS232 interface for Network Management.
- Extends the fiber link up to 120 km without any repeater.
- Compact single board Terminal.
- 100~220V Ac and -48VDC power supply is optional.

Product description

OPTIMUX series of Multi E1 & Fast Ethernet Optical Terminal is a product combining of a PDH optical transport system and an Ethernet transceiver, as illustrated in Figure:



OPTIMUX can provide up to 16 E1 interfaces and 3 fast Ethernet + 10/100M optical Ethernet port. The Ethernet interface can be operated in 10M/100M, half duplex or full duplex mode by either auto-negotiation or manual setting.

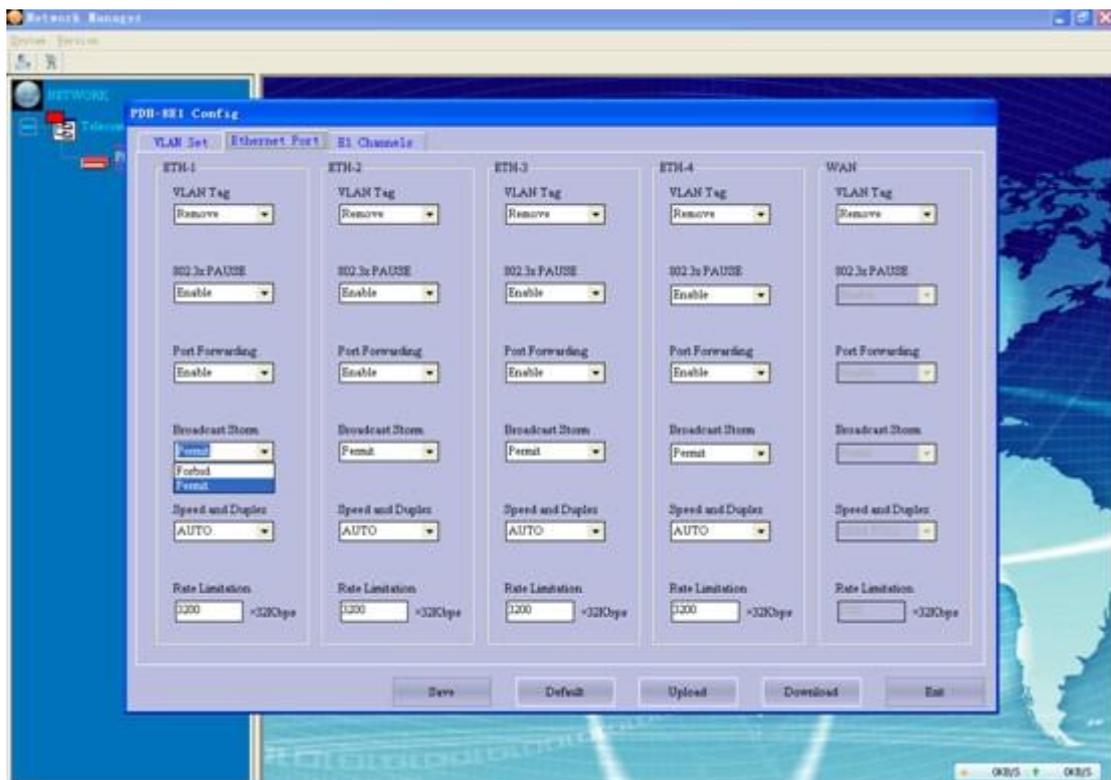
OPTIMUX also provides an order-wire for which a standard telephone can be used.

OPTIMUX also provides a user RS232 transparent data link with a RJ45 connector.

OPTIMUX possesses complete operation monitoring function. Those indicators include Loss of optical signal, LOF, 10^{-3} , 10^{-6} bit error rate, Loss of each E1 tributary signal and Ethernet status. Since some overhead bytes are taken as monitoring channel, all alarm and status of Remote can be display locally.

OPTIMUX provides RS232 interface for Network Management. Supported by GUI NMS, Users can observe the status of Local and Remote, as well as other alarm information unable to be displayed by LEDs in the front panel. Also, with GUI NMS, user can make certain E1 loop back for testing purpose. GUI NMS can configure ETH port like intelligent L2 switch, it has followed functions:

- Separation based on port;
- VLAN based on port;
- VLAN based on TAG;
- Flow control based on 32K (32K~100M).
- Port monitoring.
- Broadcast Storm Protection, etc.



Application

