Fiber Optical Multiplexer

MUXpro 700

- Compact standalone design
- Fiber optical transmission for 8Mbps TDM and 100Mbps Ethernet
- Four on-board Fast Ethernet transmission
- 1+1 Fiber optical link protection
- On-board SNMP agent enabled with UNMS control
- Flexible E1/T1/V.35 configuration
- WDM solution available
- LED Display on front panel
- Diagnostic loop back function

MUXpro 700 is an optical fiber multiplexer for aggregating up to 4E1/T1 + 4FE or 3E1/T1 + universal data port + 4FE data transmission into a single fiber optic link. With advanced features such as on-board SNMP management, 1+1 optical link protection and full diagnostic functions, the MUXpro 700 provides an optimal platform for concentrating and extending T1/E1/Data/Ethernet over a fiber optic link. This platform, designed with modern FPGA technology, offers exceptional reliability, low power consumption and unprecedented flexibility.

The T1/E1/Data/Ethernet interfaces conform to ITU standards in all aspects, making the MUXpro 700 compatible with all existing T1/E1/Data/Ethernet environments. Its tributary interface can also be configured by software either with all four E1 links or three E1 and one universal data port to accommodate unpredictable circumstances in field application. On-board four Fast Ethernet interface provide real-time data transmission over an optical link. It also offers various optical tranceiver and modules to satisfy various distance requirements while providing automatic protection switching for optical link redundancy. The cost-efficient single fiber solution (WDM) is applicable.

Managing the MUXpro 700 can be conducted easily through either universal NMS via SNMP agent or craft port with a general VT-100 or emulation terminal. The full LED display feature enables carriers to monitor the entire status, the optical interface alarm status and all other working conditions with clarity.

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MUXpro 700

Availavle Interfaces
- 4 E1/T1 + 4 Fast Ethernet
- 3 E1/T1 + 4 Fast Ethernet + 1 Universal Data Port

Optical Tranceiver
- Data Rate: MAX. 125Mbit/s
- Optical Wavelength: 1310nm
- Optical Output Power: -5dBm
- Receiver Sensitivity: -34dBm
- Connector: FC/PC

WDM
- Optical Wavelength: 1310nm, 1550nm
- Optical Output Power
  20Km: -8 ~ -14dBm
  40Km: -3 ~ -8dBm
- Optical Sensitivity: -33dBm
- Connector: SC/PC

Interfaces

E1 Interface
- Line Coding: HDB3
- Line Rate: 2.048 Mbps
- Line Impedance: 120/75 ohms
- Compliance: ITU-T G.703, G.704, G.706 and G.732
- Jitter Performance: Compliant with ITU-T G.823

T1 Interface
- Line Coding: AMI, B8ZS
- Line Rate: 1.544Mbps
- Line Impedance: 100 ohms
- Compliance: ITU-T G.703, G.824, and ANSI T1.403
- Jitter Performance: Compliant with ITU-T G.824
- Connector: DB-25 with adapter cable

Universal Data Interface
- V.35, V.36, X.21, EIA-530 (Software configurable)
- Data rate: Nx64Kbps (N=1~32)
- Connector: DB-25 with adapter cable

Ethernet Interface
- 10/100 Base-Tx Ethernet Interface
- Auto MDI/MDIX Crossover
- Transparent Bridge Mode

Timing Source Setting
- Internal, DTE, Receive clock

Diagnostic Function
- LL: Local Loopback
- RL: Remote Loopback

Management
- Configuration via craft port VT-100
- Standard SNMP with Universal NMS

Dimensions
- 210mm (W) x 285mm (D) x 41mm (H)

Operating Environment
- Operation temperature: 0°C ~ 50°C
- Storage temperature: -25°C ~ 70°C
- Relative humidity: up to 95% (non-condensing)

Power Requirement
- AC: 110V ~ 240V, 50 ~ 60Hz Autorange
- DC: -36V ~ 72V VDC