

OptiMux 650 Series

Features

- ◆ Multiplex 4 Duplex Optical LAN/WAN High Speed Signals
- ◆ Individual Channel Bandwidth from 0 to 650 Mbps
- ◆ Transmit Synchronous and Asynchronous Data Up to 40 Km
- ◆ 100% Protocol Independent I/O
- ◆ Plug and Play
- ◆ No Bandwidth Penalty
- ◆ SNMP Option (Local Monitoring)



4 Optical Fiber Port Protocol Independent Mux/De-Mux System over ONE Fiber

Applications

- ◆ Telco CO-CO Multiplexing
- ◆ Telco Fiber Optic Feeder
- ◆ Enterprise and Corporate Networks
- ◆ Leased Fiber Networks
- ◆ Mixed Protocol Multiplexing
- ◆ Military Tactical Communications

Overview

The OptiMux 650 Series is a fiber optic, protocol independent multiplexer that is designed to multiplex Singlemode and Multimode digital optical signals. The OptiMux can multiplex up to 8 optical signals on one fiber.

Each I/O port can accept synchronous and asynchronous digital optical signals between 0 and 650 Mbps, such that an 4 channel OptiMux 650 has the equivalent bandwidth of one SONET OC-48 signals. The OptiMux 650 can transmit multiplexed signals up to 40 Km via Singlemode fiber.

Using automatic gain control and state-of-the-art multiplexing technology, the OptiMux 650 is a plug and play device. The OptiMux 650 features protocol independent I/O ports, which introduces no bandwidth penalty or excessive transmission delay to the I/O protocol.

Protocol independent ports enable users to re-configure an entire network without re-configuring the OptiMux 650. For example, a Singlemode 100M Ethernet I/O connection can be changed to a Singlemode OC-12 connection simply by disconnecting the 100M Ethernet from the OptiMux 650 and connecting the OC-12 signal to the OptiMux 650.

The OptiMux 650 is ideal for high-speed leased fiber, Telco feeder, SCADA, Enterprise and Corporate Networks. The OptiMux650 multiplexes SONET OC-1, OC-3, and OC-12, SDH STM-1 and STM-4, 10M Ethernet, 100M Ethernet, DS3, E3, CEPT-1, FDDI, ESCON, and many other standard or proprietary digital optical signals.

Specifications

System:

Error Rate 1 in 10¹⁰
 I/O Channel 4
 Indicators PWR
 TX Ch 1-4
 RX Ch 1-4
 Data Rate 0 to 650 Mbps per Channel
 Protocol Independent
 SNMP Option

Optical Composite:

Transmitters CWDM Lasers
 Wavelength 1510, 1530, 1550, 1570nm
 Speed 0 to 650 Mbps x 4
 Receiver PIN
 Wavelength 1510, 1530, 1550, 1570nm
 Power Budget 14 dB SM
 Distance 40 Km
 Connectors FC/APC
 Fiber One

Environment:

Operating 0°C to 50°C
 Storage -40°C to 95°C
 Humidity 95% Non-Condensing

Optical Input/Output:

Transmitters Lasers 1310nm SM
 LED 1310nm MM
 VCSEL 850nm MM
 Output -3 dBm SM
 -16 dBm MM
 -3 dBm MM (850)
 Receiver PIN
 Saturation +1 dBm
 Sensitivity -28 dBm

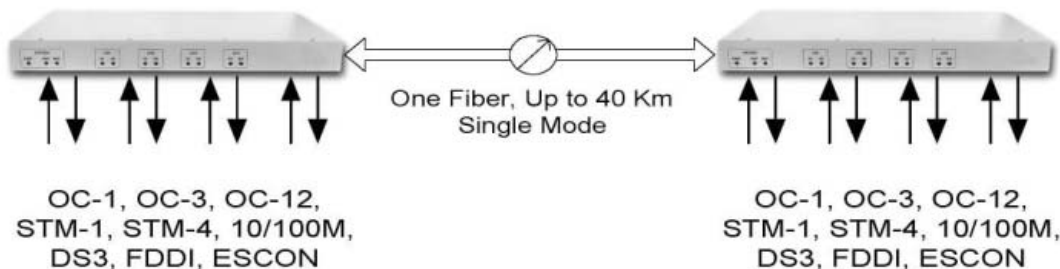
Power:

AC 90-240 VAC, 47-63 Hz
 DC -44 to - 56 VDC

Physical:

Dimensions 19" x 1.75" x 10"

Example Application



Typical OptiMux 650 Application



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Ordering Information:

| Model | Description |
|----------------------|---|
| OM650A-XX-Y | 4 Channel Optical Multiplexer, One Fiber System |
| I/O Group | XX = 01 850 nm MM 02 1310 nm MM 03 1550 nm SM |
| Composite Connectors | Y = ST / SC FC |

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