

PriMux1200

4 Optic Channel Protocol Independent Mux/De-Mux Using One Fiber System

Overview

The PriMux 1200 Series is a fiber optic, protocol independent multiplexer that is designed to multiplex up to 8 single mode/multimode digital optical signals over one single mode fiber.

Each I/O port can accept synchronous and asynchronous digital optical signals between 0 and 1200 Mbps, such that a 4 channel PriMux 1200 has the equivalent bandwidth of one SONET OC-96 signals. The PriMux 1200 can transmit multiplexed signals up to 40 Km via only one single mode fiber.

Using automatic gain control and state-of-the-art multiplexing, combining with CWDM technologies, the PriMux 1200 is a plug and play device. The PriMux 1200 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 PriMux 1200. For example, a single mode 100M Ethernet I/O connection can be changed to a single mode OC-12 connection simply by disconnecting the 100M Ethernet from the PriMux 1200 and connecting the OC-12 signal to the PriMux 1200.

The PriMux 1200 is ideal for high speed leased fiber, Telco feeder, SCADA, Enterprise and Corporate Networks. The PriMux 1200 multiplexes SONET OC-1, OC-3, and OC-12, SDH STM-1 and STM-4, 100M Ethernet, Gigabits Ethernet, DS3, E3, CEPT-1, FDDI, ESCON, and many other standard or proprietary digital optical signals.



Features

- ◆ *Multiplex 4 Duplex Optical LAN/WAN High Speed Signals*
- ◆ *Individual Channel Bandwidth From 0 to 1.2 Gbps*
- ◆ *Transmit Synchronous and Asynchronous Data Up to 40 Km*
- ◆ *100% Protocol Independent I/O*
- ◆ *One Fiber System*
- ◆ *Plug and Play*
- ◆ *No Bandwidth Penalty*

Applications

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

Ordering Information:

Model	Description
PM1200-XX-YY	4 Channel Optical Multiplexer
I/O Group	XX = 01 850 nm MM 03 1300 nm SM 05 1550 nm SM
Composite Connectors	Y = ST / SC / FC

** Please consult factory for additional models and specifications*

System:

Error Rate	1 in 10 ¹⁰
I/O Channel	4
Indicators	PWR TX Ch 1-4 RX Ch 1-4
Data Rate	10M to 1200 Mbps per
Protocol	Channel
SNMP	Independent Option

Environment:

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

Power:

AC	90-240 VAC, 47-63 Hz
DC	-48 VDC (Optional)
Volts/Amp	5 VDC @ 2.5 Amp

Physical:

Dimensions	19" x 1.75" x 10"
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Optical Composite:

Transmitters	CWDM Lasers
Wavelength	1510, 1530, 1550, 1570nm
Speed	0 to 1200 Mbps x 4
Receiver	PIN
Wavelength	1510, 1530, 1550, 1570nm
Power Budget	18 dB SM
Distance	50 Km
Connectors	FC/APC

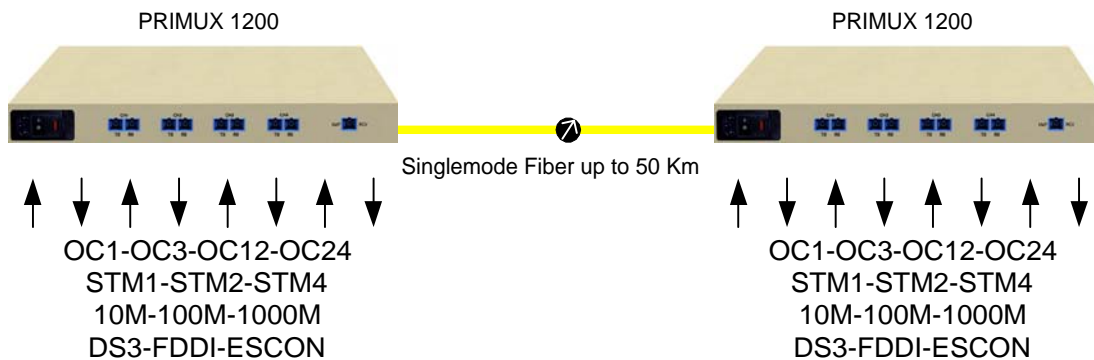
Optical Input/Output:

Transmitters	Lasers 1310nm SM LED 1310nm MM VCSEL 850nm MM
Output	-3 dBm SM
Receiver	PIN
Saturation	+1 dBm
Sensitivity	-21 dBm

Data Interface:

Telecom	OC1-OC24, STM1-STM16
Data-com	FDDI, ATM, ESCON
LAN/WAN/MAN	Gb Ethernet, Fiber-Channel

Example Applications



Typical PriMux1200 4-Channel Optical Multiplexer Application