FiberPlex™ Optical Add/Drop Multiplexer

TD-OADM Series

TD-OADMs are a cost effective method for removing and rerouting individual wavelengths from your main fiber trunk to specific destinations.

Primary applications

- *Metro area networks*
- *Mobile fronthaul/backhaul*
- *AV distribution*
- *Large enterprise*
- *Intra-SCIF distribution*

Wavelength
Full ITU-T G.694.2 spectrum grid support (1270 to 1610 nm).

Isolation
East/West operation with 2 x TX/RX connections for center wavelength.

Power
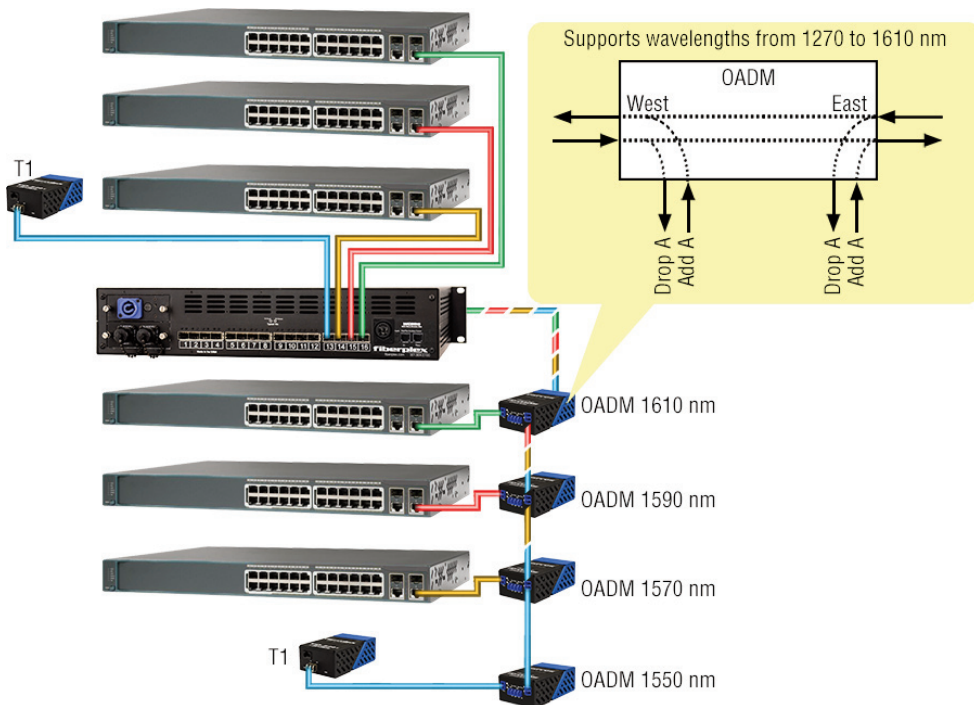*Completely passive operation*

Extended Temperature
23 to 149°F (-5 to 65°C).

The FiberPlex TD-OADM is an optical add/drop mux used in WDM (wavelength-division multiplexing) systems for multiplexing and routing different channels of light into or out of a single mode fiber (SMF). A dedicated wavelength is assigned to any kind of voice, video or network traffic.

These channels are completely transparent to traffic type, protocols and compression schemes. OADMs are commonly used in point-to-point, linear, ring, star, and mesh topologies for a large variety of applications.

Visit www.patton.com to view our huge selection of network connectivity products and more.

Typical Application

let's Connect!™

TD-OADM

Specifications

Add/drop wavelength options

1271, 1291, 1311, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm

Fiber

Type: SMF-28e bare fiber

Connector: LC/UPC

Channel Passband
± 6.5 nm

Polarization dependent loss
≤ 0.2 dB

Ripple in Passband
≤ 0.5

Isolation
West to east on signal: ≥ 30 dB
Adjacent channel: ≥ 30 dB
Non-adjacent channel: ≥ 40 dB

Insertion Loss
Add/drop (max): ≤ 1.3 dB
Through (max): ≤ 1.1 dB

Optical return loss
≥ 45 dB

Directivity
≥ 50 dB

Optical power range
300 mW

Environment
Operating Temp.: 23 to 149°F (-5 to 65°C)
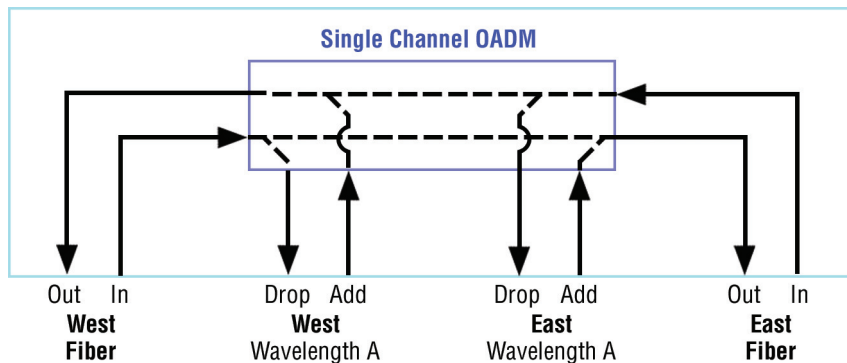**Operating Humidity**: 5 to 85%
Storage Temp.: -40 to 185°F (-40 to 85°C)

Package
Unit: 4.5 L x 2.75 W x 1.66 H inches
(114 L x 70 W x 42 H mm
Unit Weight: (0.4 lbs; 0.2 kg

Schematic

Single Channel OADM

Out	In	Drop	Add	Drop	Add	Out	In
West		**West**		**East**		**East**	
Fiber		Wavelength A		Wavelength A		**Fiber**	

07MTD-OADM-DS2