Optospan

INSTANT SINGLE FIBER BI-DIRECTIONAL LINK

Model: BiDi Box 3 **Part# BIDI-T01SXL-031**

BiDi Box 3 Highlights

ANY Vendor
Cisco, Brocade, Alcatel, Juniper etc...

ANY Application
Duplex / CWDM Links

ANY Form Factor
SFP+, SFP, XFP, X2, XENPAK

ANY Traffic
Ethernet, FC, OTU, SDH-SONET

ANY Data Rate
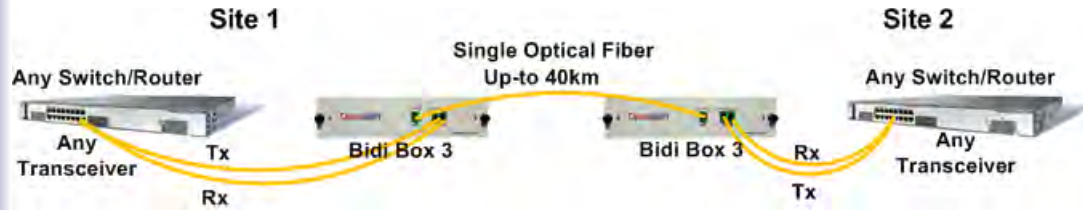100Mbps - 10Gbps

Extremely Low Signal Loss
≤ 1 dB

Passive Device
Requires No Power Supply

Maintenance-free Architecture

Convert any two-strand fiber optic network link to a one-strand optical link (1290~1330nm).

Signal Loss Comparision:

CWDM / DWDM Mux:	>3.5dB
Bidi Box 3:	<1dB ...Go up-to 40km farther...

■ INDUSTRY'S FIRST

Optospan BiDi Box 3 is the industry's first bi-directional fiber optic link converter with virtually no signal loss. The BiDi Box 3 instantly converts any duplex optical link into a simplex one suited for bi-directional communication with less than 1dB loss. It works with any Duplex or CWDM transceivers operating within the 1290nm-1330nm wavelength spectrum.

■ GOING THE EXTRA MILE

Unlike CWDM or DWDM Multiplexers that reduce your network distance up-to 40km by introducing as much as 3.5dB signal loss on each side of the link, the Optospan BiDi Box 3 only adds less than 1dB signal loss. This results in a much longer distance network, eliminating the need for costly repeating or higher powered communication equipment, and the facilities to house them.

■ SEAMLESS INTEGRATION

The BiDi Box 3 seamlessly integrates into your current switch and router environment as it is totally transparent to existing transceivers and networking equipment from OEMs like Cisco, Brocade, Alcatel, Juniper and others… Simply connect existing transceivers from switch or router to the BiDi Box 3 system on each side of the link to instantly convert your dual fiber link into a single fiber, optimized for bi-directional optical communication.

■ DOUBLE UP ON SAVINGS OR BANDWIDTH

By eliminating one strand of fiber, you effectively double the bandwidth of your current long distance communication environment, or cut your current fiber optic communication cost in half, or use the second fiber as a backup link.

Specifications

Operation Wavelength Range	1290~1330nm	Power Handling Capability	500mW
IL with connector	≤1 dB	Return Loss	≥45 dB
Min Isolation	≥40 dB	Connector Type	LC/UPC
Cross talk	≥50 dB	Operation Temperature	0°C~70°C
PDL	≤0.2 dB	Storage Temperature	-40°C~85°C
PMD	≤0.1 dB	Fiber Type	SMF-28

Ordering

■	**Part# BIDI-T01SXL-031**	Convert any two-strand fiber optic network link to a one-strand optical link (1290~1330nm).
■	**Part# R-WDM-19**	19" Rack Mount Kit for two BiDi Boxes (includes one blank plate)

Regulatory Compliance

- Telcordia GR-1221 and
- GR-1209-CORE