



# 8 Channels 80 GB CWDM Optical Mode Converter/Repeater Over One Fiber

# OM800

Email: sales@vi-link.net - Tel: 714-312-0654 - Web: www.vi-link.net

## OM Series

## Overview

**Vi-Link Optical Transport equipment:** The OM800 is a fiber optic CWDM transporter system that is designed to converter/repeat and multiplex 8 optical fiber channels over one pair of single mode fiber. It is a low cost fiber expansion solution with each I/O channel is a protocol independent transponder.

The OM800 can accept all digital optical signals between 1.25 Gbps to 10 Gbps from various communication devices, and transmit up to 40 Km via single mode fiber. Using automatic gain control and state-of-the-art multiplexing, combining with CWDM technologies, the OM800 is a plug and play device.

Protocol independent ports enable users to re-configure an entire network without re-configuring the OM800. For example, a single mode 1000M Ethernet I/O connection can be changed to a single mode OC-12 connection simply by disconnecting the GB Ethernet from the OM800 and connect the OC-12 signal to the OM800.

The OM800 is ideal for high speed leased fiber, 5G Telco, SAN, Telco feeder, SCADA, Enterprise and Corporate Networks. It multiplexes SONET OC-1, OC-3, and OC-12, OC-48, SDH STM-1 and STM-4, STM16, Gigabits Ethernet, 10GB Ethernet, DS3, E3, CEPT-1, FDDI, ESCON, HD-SDI Video, HDTV and many other standard or proprietary digital optical signals.



## Features

- *Multiplex 8 Full Duplex Optical*
- *LAN/WAN, SAN High Speed Signals*
- *Individual Channel Bandwidth From 1.25 Gbps to 10 Gbps*
- *Transmit Synchronous and Asynchronous Data Up to 40 Km*
- *100% Protocol Independent I/O*
- *Plug and Play*
- *No Bandwidth Penalty*
- *1 RU Rack Mountable*
- *NEMA Temperature*

## Applications

- *Telco CO-CO Multiplexing*
- *Fiber Optic Feeder*
- *Enterprise and Corporate Networks*
- *Leased Fiber Networks*
- *Mixed Protocol Multiplexing*
- *Military Tactical Communications*
- *ITS Traffic Networks*
- *METRO Monitoring Operation*
- *Homeland Security*
- *Oils and Gas Monitoring System*

## Order Information

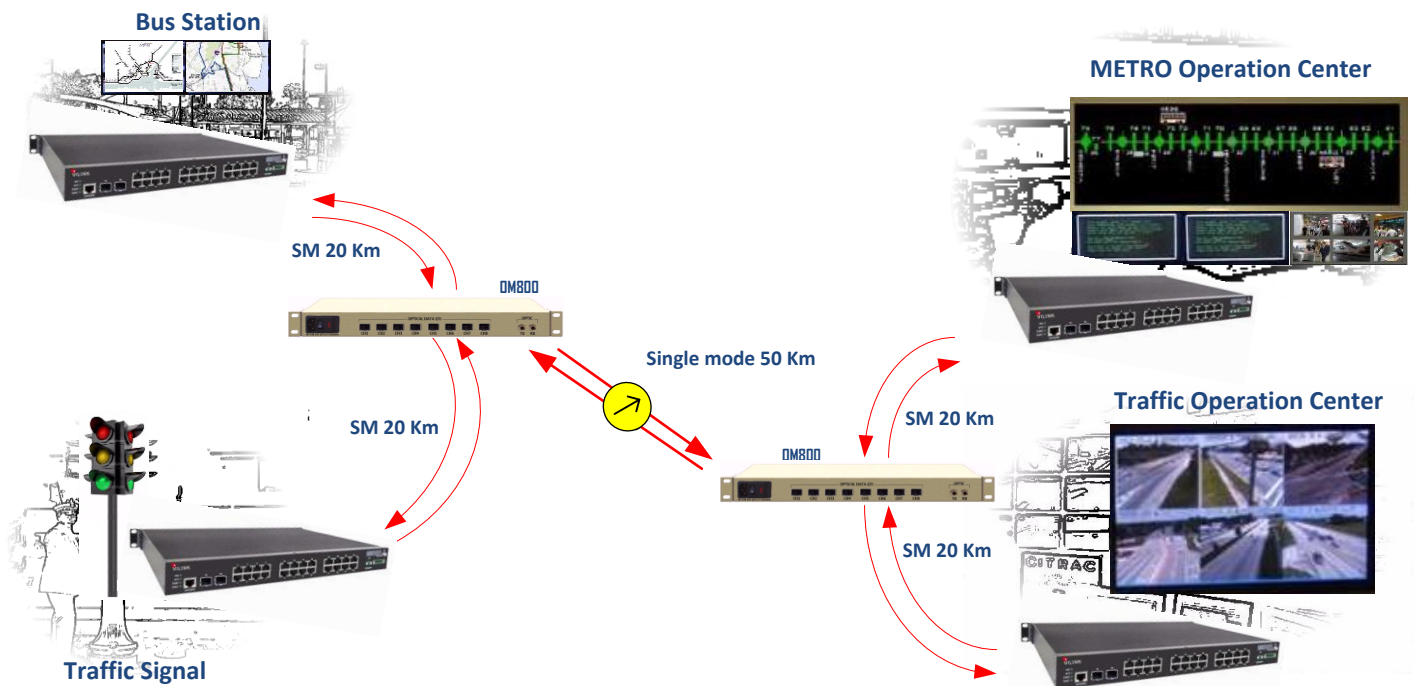
Model	Descriptions
OM800TST05	80 GB Optical Multiplexer (Tx), 8 Channels SFP i/o, 1.25 GB~10 GB per Channel, ST, SM 50Km, 90~240 VAC
	*** Please Consult Factory for Additional Model Numbers***

### Specifications

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, TX1-8, RX1-8
I/O Channels	Full Duplex
Data Rate	1.25 Gbps to 10 Gbps per Channel
Protocol	100% Transparency
<b>Environment:</b>	
Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C
Storage	-40 <sup>0</sup> C to + 95 <sup>0</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	19" x 10" x 1.75"
Weight	7 lbs

<b>Optical Composite Interface:</b>	
Transmitter	SM CWDM Lasers
Receiver	SM CWDM & PIN-TIA
Data Rate	8 x 10 Gbps
Distance	Up to 40 Km @ single mode
Connector	ST or SFP
<b>Optical I/O Interface:</b>	
Transmitter	VESEL-850, 1310nm MM/SM Lasers
Receiver	PIN-TIA
Data Rate	8 x 10 Gbps
Distance	20 Km @ single mode
Connector	SFP
<b>Power:</b>	
Rack mountable	90~240 VAC

### Application



All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate at the time of publication. However, the accuracy or completeness of the information given is not guaranteed and no responsibility is assumed for any inaccuracies. Please contact Vi-Link, Inc. for more information. Vi-Link, Inc. and Vi-Link Logo are trademarks of Vi-Link, Inc.