



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

# OM820

## OM Series

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## Overview

**Vi-Link Optical Transport equipment:** The OM820 is a fiber optic CWDM transporter system that is designed to converter/repeat and multiplex 8 optical fiber channels and one 10/100/1000M Ethernet Channel 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 OM820 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. The 10/100/1000M Ethernet channel supports store and data forwarding with extremely low latency. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network. 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 OM820. 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 OM820 and connect the OC-12 signal to the OM820.

The OM820 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
- 10/100/1000M Ethernet Link
- 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

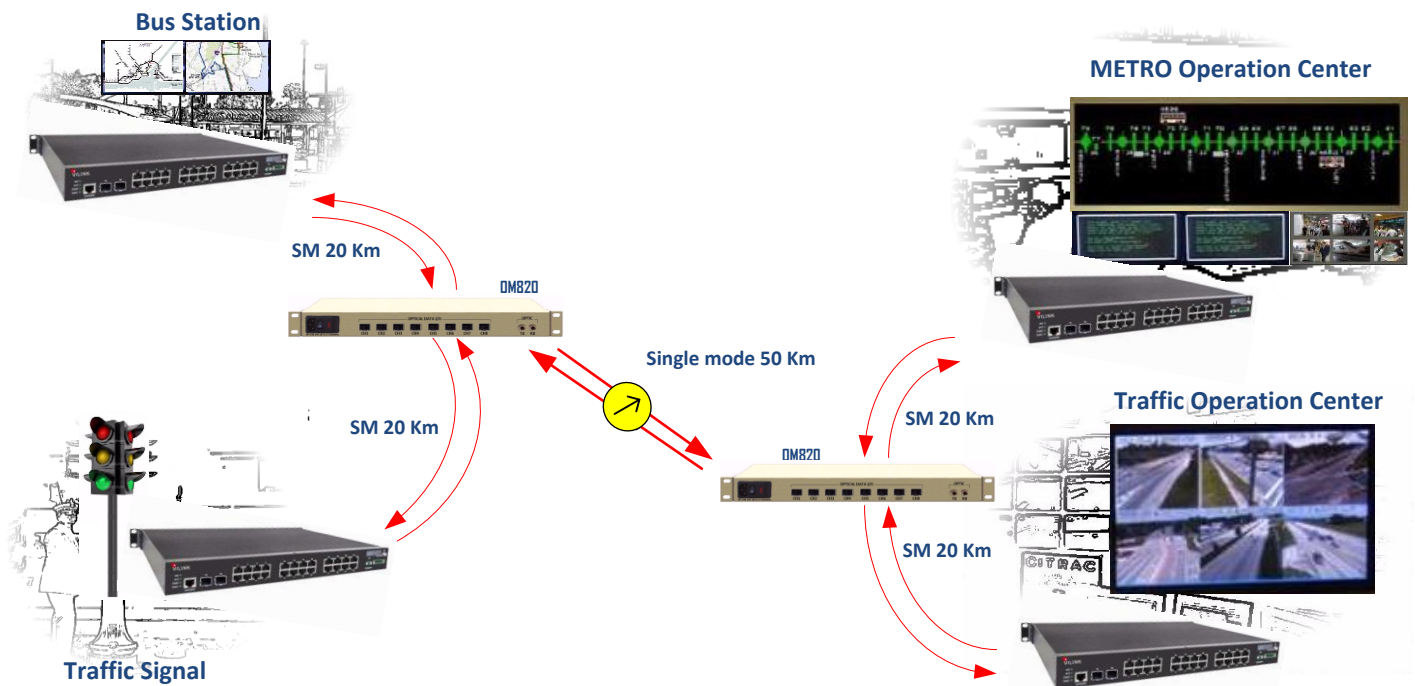
Model	Descriptions
OM820TST05	80 GB Optical Multiplexer (Tx), 8 Channels SFP i/o, 1 x 10/100/1000M, ST, SM 50Km, 90~240 VAC
	*** Please Consult Factory for Additional Model Numbers***

### 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>Power:</b>	
Rack mountable	90~240 VAC

<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>10/100/1000M Ethernet Interface:</b>	
Channel	1
TX Port	Auto Negotiation MDI/MDIX
Data Rate	10/100/1000 Mbps
Network Standard	IEEE802.3 10/100/1000BaseT

### Application



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