



# 16 Channels 160 GB CWDM Optical Mode Converter/Repeater Over One Fiber

# OM1600

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## OM Series

## Overview

**Vi-Link Optical Transport equipment:** The OM1600 is a fiber optic CWDM transporter system that is designed to converter/repeat and multiplex 16 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 OM1600 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 OM1600 is a plug and play device.

Protocol independent ports enable users to re-configure an entire network without re-configuring the OM1600. 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 OM1600 and connect the OC-12 signal to the OM1600.

The OM1600 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 16 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

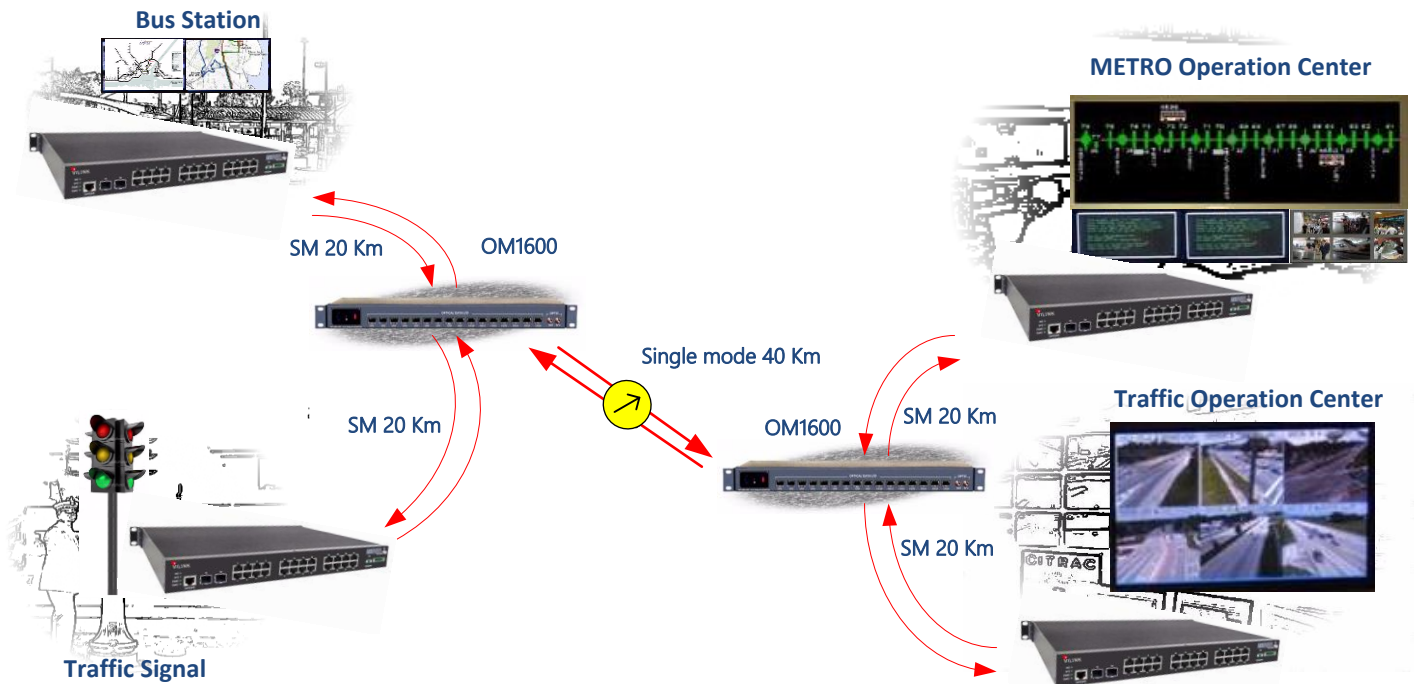
Model	Descriptions
OM1600TST05	160 GB Optical Multiplexer (Tx), 16 Channels SFP i/o, 1.25 GB ~ 10 GB per Channel, ST, SM 40Km, 90~240 VAC
	*** Please Consult Factory for Additional Model Numbers***

## Specifications

System:	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, TX1-16, RX1-16
I/O Channels	Full Duplex
Data Rate	1.25 Gbps to 10 Gbps per Channel
Protocol	100% Transparency
Environment:	
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
Physical:	
Dimensions	19" x 10" x 1.75"
Weight	10 lbs

Optical Composite Interface:	
Transmitter	SM CWDM Lasers
Receiver	SM CWDM & PIN-TIA
Data Rate	16 x 10 Gbps
Distance	Up to 40 Km @ single mode
Connector	ST or SFP
Optical I/O Interface:	
Transmitter	VESEL-850, 1310nm MM/SM Lasers
Receiver	PIN-TIA
Data Rate	16 x 10 Gbps
Distance	20 Km @ single mode
Connector	SFP
Power:	
Rack mountable	90~240 VAC

## Application



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