Transport Equipment Series

Model   IL160

Product Description

Vi-Link Optical Mux equipment: The **IL160** is a fiber optic 160GB CWDM transporter that designed to transmit up to 16 independent channels in real time digital signals transmission. This unique multiplexer is a cost effective fiber expansion solution, without installing new fibers, the user can maximize fiber capacity up to 16 times and can transfer up to 10 GB of digital data per channel to new location. Distance between the two locations is up to 80 km, however, it can be used for longer distance with its' optical repeater function.

The IL160 can accept all digital signals between 1 GB to 10 GB from various communication devices through it's SFP input and output ports such as 1/10GB Ethernet, HD SDI 3/6G Video, 2/4/8K HDMI video short range 1/10G MM fiber link, SONET, SDH, FDDI, ESCON and so on. Protocol independent ports enable users to re-configure an entire network without re-configuring the IL160. For example, a 10GB Copper Ethernet I/O connection can be changed to a MM Optic 10GB Ethernet simply by disconnecting the Copper Ethernet SFP from the IL160 and connect the MM Optic Ethernet to the IL160.

 The extended temperature capability of the IL400 satisfies very critical applications requiring high quality video performance with high reliability.

Applications include High Speed Ethernet Networks, Large Data Center, Broadcasting Video productions, High Speed Leased Fiber, 5G Telco, S Telco feeder, SCADA, SONET OC-1, OC-3, OC-12, OC-48, SDH STM-1,STM-4, STM16, DS3, E3, CEPT-1, FDDI, ESCON, HD-SDI, HDMI Video and many other standard or proprietary digital optical signals.

Features

- *Multiplex 16 Full Duplex Optical Channels*
- *LAN/WAN, SAN High Speed Signals*
- *Individual Channel Bandwidth From 1.25 Gbps to 10 Gbps*
- *Transmit Synchronous and Asynchronous Data Up to 80 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*

Ordering Information

Model	Descriptions
IL160	160 GB Optical Multiplexer (**Tx/RX**), 16 Channels SFP i/o, 1.25GB to 10Gb per Channel, ST, SM 80Km, 90~240 VAC
	*** Please Consult Factory for Additional Model Numbers***

Vi-Link
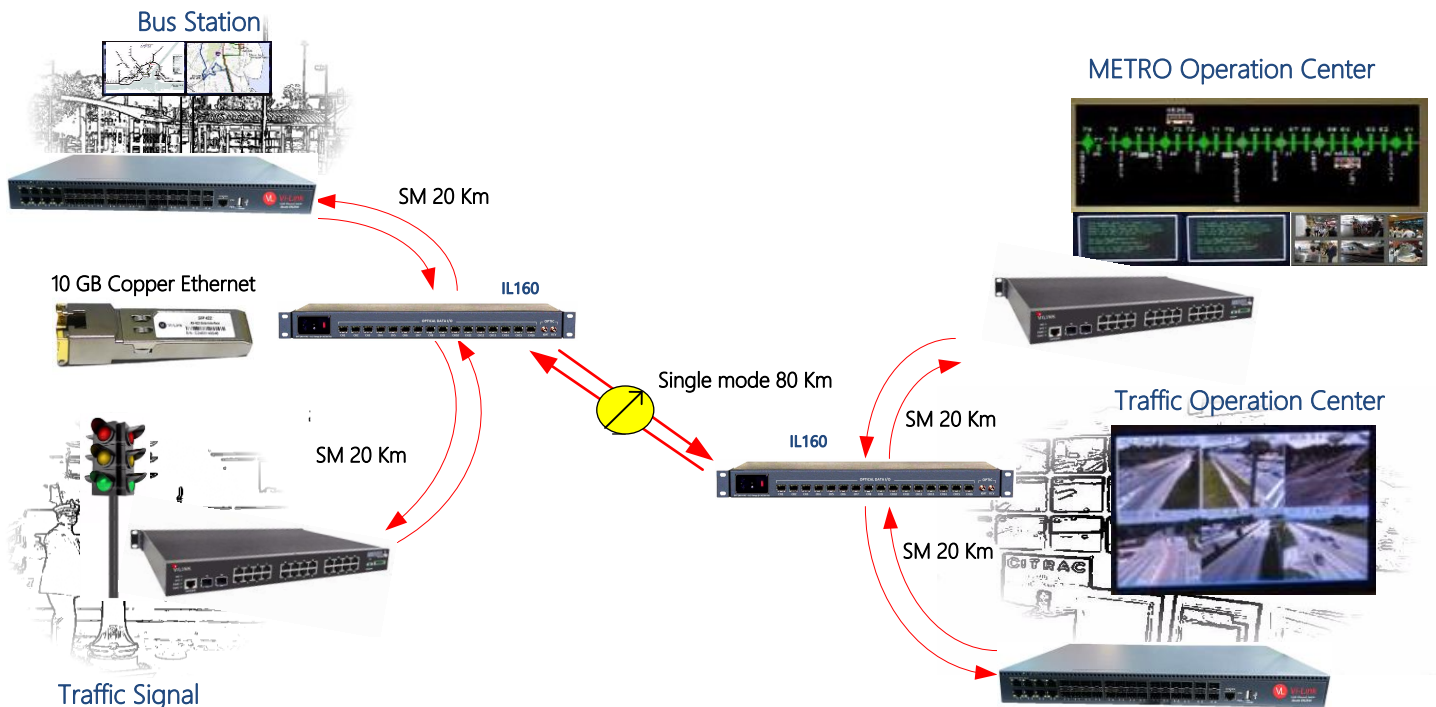*Fiber Optic Communications*

Technical Specifications

Transport Equipment Series

Model IL160

System:

Channel	16
Error Rate	1 in 10^{12} 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
SFP Slots	FO, Copper Ethernet, BNC Video

Environment:

Operating	-34^0 C to $+74^0$C
Storage	-40^0C to $+95^0$C
Humidity	98% Non-Condensing

Physical:

Dimensions	19" x 10" x 1.75"
Weight	7 lbs

Optical Composite Interface:

Transmitter	SM CWDM Lasers
Receiver	SM CWDM & PIN-TIA
Data Rate	16 x 10 Gbps
Distance	Up to 80 Km @ single mode
Connector	ST or LC

SFP I/O Interface:

Fiber Optic MM	VESEL-850nm 10 GB 300 meters
Fiber Optic SM	Laser 1310nm Up To 10GB 20Km
Copper Ethernet	1000M/10GB 30 meters
BNC Video Tx/Rx	3G HD SDI
Asynchronous Data	RS-422, RS-232
Connector	SFP

Power:

Rack mountable	90~230 VAC

Application

Bus Station

METRO Operation Center

10 GB Copper Ethernet

SM 20 Km

IL160

Single mode 80 Km

IL160

SM 20 Km

SM 20 Km

Traffic Operation Center

SM 20 Km

Traffic Signal

Typical IL160 in Fiber Extension Application