



# Vi-Link

Fiber Optic Communications

## Universal Fiber Optic SFP to SFP GB Mode Converter/Repeater

Transport Equipment Series

Model IL10



### Product Description

**Vi-Link Optical equipment:** The IL10 is a SFP to SFP OEO that designed to convert optical or electrical signal between two SFP modules. This unit provide a wide variety optical and electrical conversion such as Multi Mode to Single Mode Fiber, Single Mode to Single Mode Fiber (Repeater), Copper Ethernet to Fiber, 3G HD SDI video to Fiber, RS-232 or RS-422 Data to Fiber and so on. It is the most convenience and cost effective solution for converting classis equipment protocols into modern fiber optic applications. Distance between the two locations can be up to 80 km with high power laser optic SFP module.

The IL10 can accept all digital signals from DC to 1.25 GB or higher from various communication devices through it's SFP input and output ports such as GB Ethernet, 3G HD SDI Video, 2/4/8K HDMI video short range GB MM fiber link, SONET, SDH, FDDI, ESCON and ... so on.

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

- OEO Full Duplex Optical
- LAN/WAN, SAN High Speed Signals
- Bandwidth From DC to 1.25 Gbps
- Transmitting Data Up to 50 Km
- 100% Protocol Independent
- Multimode to Single Mode
- Single Mode to Single Mode
- GB Ethernet to Fiber
- 3G HD SDI Video to Fiber
- RS-232 or RS-422 Data to Fiber
- Plug and Play
- No Bandwidth Penalty

### 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
IL10	SFP To SFP EOE Converter, Up To 3 Gbps, LC Conn, 50Km, +5 VDC
IL10R	SFP To SFP EOE Converter Card, Up To 3 Gbps, LC Conn, 50Km, +5 VDC
IL1600	2RU 16 Slots Chassis for IL10R With Dual Power Supply

\*\*\* Please Consult Factory for Additional Model Numbers\*\*\*



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# Technical Specifications

## Transport Equipment Series

Model IL10

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, Link 1, Link 2
I/O Channels	Full Duplex
Data Rate	DC to 1.2 GB
Protocol	100% Transparency
SFP Slots	FO, Copper Ethernet, BNC Video
<b>Environment:</b>	
Operating	-34 <sup>o</sup> C to +74 <sup>o</sup> C
Storage	-40 <sup>o</sup> C to + 95 <sup>o</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	2.5" x 4" x 1.0"
Weight	0.5 lbs

<b>SFP 2 Optical Composite Interface:</b>	
Transmitter	SM Lasers
Receiver	SM PIN-TIA
Data Rate	Up To 3 Gbps
Distance	Up to 50 Km @ single mode
Connector	SFP Port LC
<b>SFP 1 Input / Output Interface:</b>	
Fiber Optic MM	VESEL-850nm 1.25 GB 300 meters
Fiber Optic SM	Laser 1310nm Up To 3 GB 20Km
Copper Ethernet	100/1000M 30 meters
BNC Video Tx/Rx	3G HD SDI
Asynchronous Data	RS-422, RS-232
Connector	SFP Port
<b>Power:</b>	
Standalone	+5 VDC Power Adaptor

## Application

### Remote Intersection



DL10

Up to 80 Km SM Fiber



### Data Control Center



IL1600 Chassis

DL10R

Typical IL10 With IL10R & IL1600 Chassis  
In Traffic Control Application