



Overview

VILINK third generation Optical Fiber Line Driver: The FL100 is a high speed optical mode converter/transporter that is designed to convert 850nm or 1310nm broadband multimode fiber to 1550 broadband single mode fiber for extending the fiber distance beyond 80 Km. It is a low cost fiber expansion solution to achieve longer fiber distance requirement.

The FL100 provides logic to logic serial data transmission over optical fiber. It functions as a bi-directional multimode to single mode repeater and can operate on a primary or secondary ring. It is an ideal transportation system for multimode to single mode conversion or single mode repeating functions. As a Digital Optical Repeater it can transmit up to 80Km with 1550nm DFB laser. The FL100 series offer both standalone and rack mount versions, it is protocol independent fiber link and it can be selected the optical speed up to 1.25 Gigabits for matching the speed of the user's equipment.

The FL100 is ideal for high speed leased fiber, SAN, Telco feeder, SCADA, Enterprise and Corporate Networks. The FL100 can be used with SONET OC-1, OC-3, and OC-12, SDH STM-1 and STM-4, 100M Ethernet, Gigabits Ethernet, DS3, E3, CEPT-1, FDDI, ESCON equipment..

Features

- *Full Duplex Optical Conversion*
- *LAN/WAN, SAN High Speed Signals*
- *Bandwidth Up To 1.25 Gigabits*
- *Transmit Synchronous and Asynchronous Data Up to 50 Km*
- *100% Protocol Independent I/O*
- *Plug and Play*
- *No Bandwidth Penalty*
- *Standalone and 3RU Rack Card*
- *NEMA Temperature*

Applications

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

Ordering Information

Model	Descriptions
FL100-85M15S-SC1	Optical Broadband Transponder 850nm to 1550nm, SC to SC, 1.25 GB, 50Km, +12 VDC
FL100-13M15S-SC1	Optical Broadband Transponder 1310nm to 1550nm, SC to SC, 1.25 GB, 50Km, +12 VDC
FL100-13M15S-SC1	Optical Broadband Transponder 1310nm to 1550nm, SC to SC, 1.25 GB, 50Km, +12 VDC
FL100R-13M15S-SC1	Optical Broadband Transponder 1310nm to 1550nm, SC to SC, 1.25 GB, 50Km, Rack Card
VK2300	3RU Chassis with 8 i/o Slots and 2 Power Supplies

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

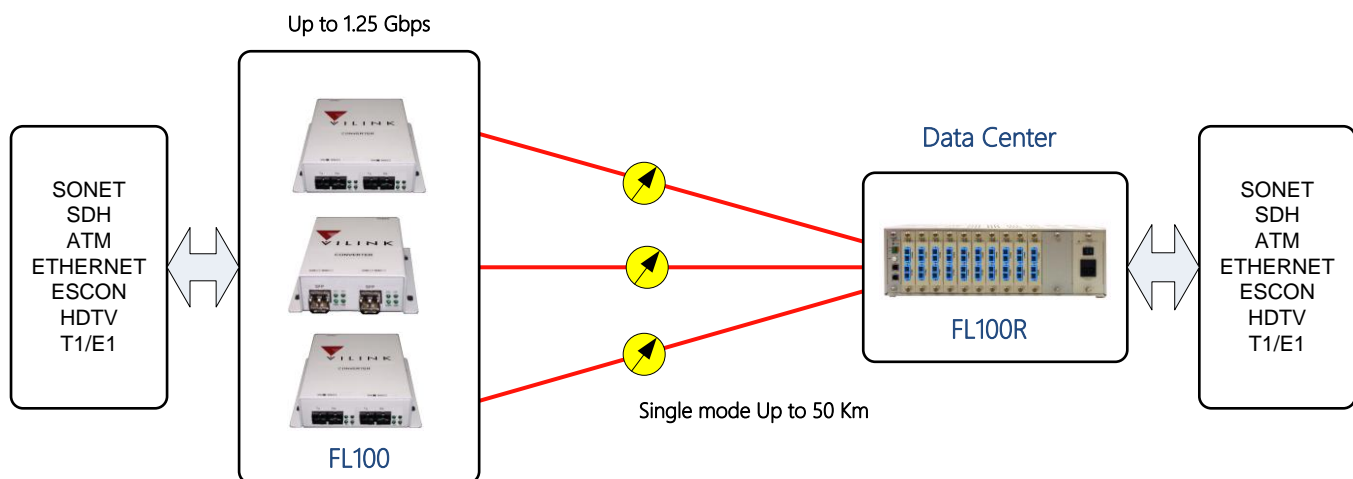
Transport Equipment Series

Model FL100

System:	
Error Rate	1 in 10 ¹² or Better
Indicator	Power, Tx, Rx
Transmission Mode	Full Duplex
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Dimensions	19" x 10" x 1.75"
Standalone	4" x 5" x 6"
Rack Card	1" x 5"
Power:	
Standalone	+12 VDC
Rack	90~240 VAC

Single Mode Composite Interface:	
Transmitter	SM Lasers
Receiver	PIN-TIA
Wavelength	1550nm
Data Rate	Up To 1.25Gbps
Distance	50 Km @ single mode
Connector	SC, ST, SFP
Multimode I/O Interface:	
Transmitter	850/1310nm Lasers
Receiver	PIN-TIA
Data Rate	Up To 1.25Gbps
Wavelength	850nm MM / 1310nm MM/SM
Distance	2Km @ 850 MM 10Km @ 1310 MM
Connector	SC, ST, SFP

Applications



Typical FL100 in Fiber Distance Expansion application