

Features

- 950-2150 Mhz
- Up to 50Km range
- 9 dB RF gain from TX to RX
- 20 dB Noise Figure
- LNB power up to 400mA
- Long Line Compensation (LLC) feature for LNB power
- Color OLED Display w/ button joystick for navigation
- Monitor laser status, LNB Power, Polarization, RF Gain
- Singlemode APC
- ST, SC, LC, FC
- Small, rugged, portable
- Stand alone or rack
- SEVEN year warranty

Applications

- STL's
- Broadcast head Ends
- RF Signal distribution
- NOC's
- Transmission Paths
- Back-Hauls

Moving your RF signals does not need to be painful

Avoid distance limitations and save money with SATLINK by MultiDyne



The SL-2150 Satlink L-Band fiber optic link is ideal for connecting antennas with control rooms, network operation centers or broadcast head ends and is far more than just an alternative to coaxial cabling in teleport earth stations.

The Satlink system has been designed to provide very low carrier-to-noise ratio and extremely linear performance. This equates to a cost effective technically superior installation for the satellite signal user. Only SL-2150 links have ultra wide dynamic range so that auto gain control is not required to cope with changing signal intensity caused by meteorological conditions.

A range of options to accommodate a variety of installations is offered, such as 75 Ohm or 50 Ohm impedance with either BNC or F connectors and we utilize high performance DFB lasers. For installations where the number of cross site fiber connections is limited, the complete ITU range of CWDM transmitter wavelengths is offered allowing up to eight channels to be carried on one fiber. Optical connector options include ST, LC, FC, or LC APC. Angle-polished connectors are strongly recommended.

The SL-2150 can be conveniently rack mounted three across in one RU with our RMT Rack Mount Kits. Power can come from either a 12V brick adapter or any source in a range from 9 to 24V DC.

But what really makes these new modules different is the 1" (diagonal) color OLED display that isn't just for looks. The display is enabled by a proximity sensor on the faceplate so there is no distraction from a display that is always on. Menu navigation is via an easy-to-use button joystick. The OLED will display system information such as LNB Power on/off, inform you of laser status, RF gain/loss, link and other essential parameters.

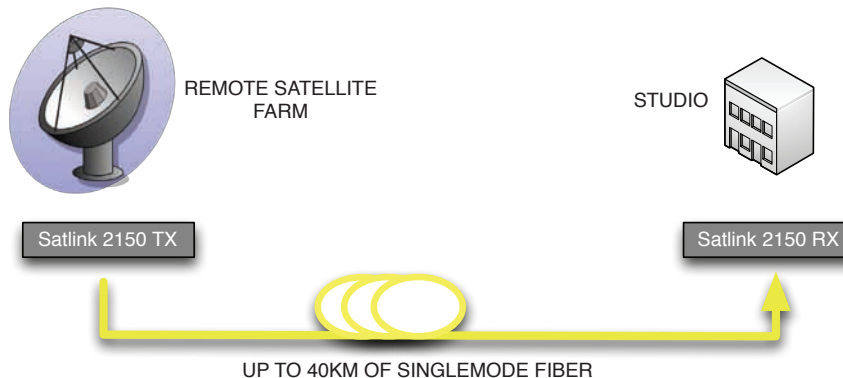
LNB polarity is easily set at the TX unit.

The SL-2150 represents a new way to think about how you move your L-Band RF signals. No longer must you have expensive frames and power supplies. No longer does it need to be difficult. Simply plug in power, your coax and your fiber and trust MultiDyne to deliver your RF signals.

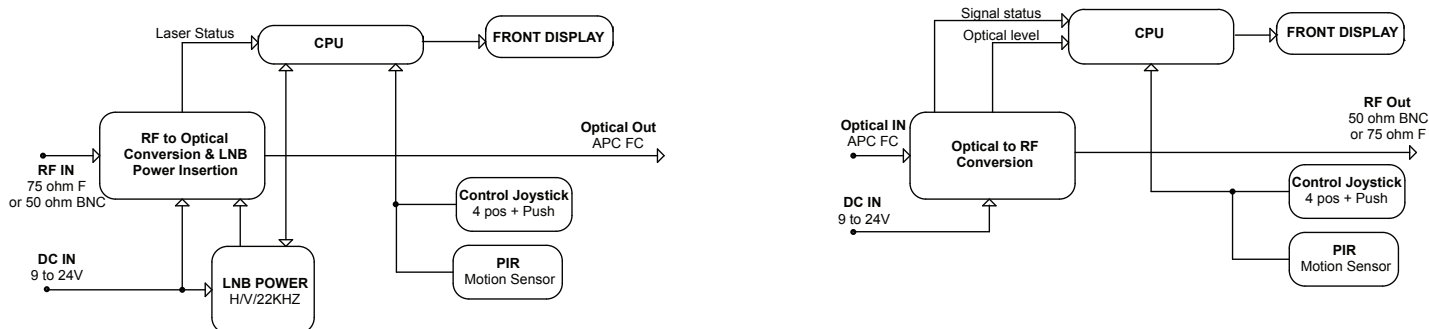
Designed and manufactured in New York.



Application Drawing



Block Diagram



Specifications

RF

Freq. range 950-2150MHz
 Flatness +/- 1.25 dB
 IMD -62 dBc
 CNR 56 dB
 Gain Stability 0.25 dB
 RF link gain 9 dB +/- 3 dB
 Noise figure 20 dB
 Return loss >15 dB
 Max in/out power +15 dBm
 Connectors 75Ω F or 50Ω BNC
 LNB volts(LCC off) 13V Vert. / 18V Horiz.
 LNB Volts(LCC on) 14V Vert. / 19V Horiz.
 Universal LNB(lo) 22 KHz

Optical

Wavelengths 1310 or 1471-1611
 Optical Connector APC ST, SC or LC
 Optical Source DFB
 Optical Detector PIN Diode
 TX Output +4 dBm
 RX Sensitivity -16 dBm
 Link Margin 15 to 20 dB (up to 40km)
 Fiber Type Singlemode

Environmental/ Electrical

Power: 9-24 VDC
 Consumption <5 Watts
 Temperature: 0 to +50C
 Storage temp. -20C to +7-C
 Humidity 0-95% RH non-condensing
 Dimensions 5.5 x 1.5 x 7 inches
 Weight 24 oz.
 Display 1 inch color OLED w/ proximity sensor indicates Power, Laser Status, LNB Power, LLC, Alarms, optical power
 Cursor Ctrl Button joystick

Ordering Information

Module	Angle-polished connectors are NECESSARY (SC/APC, FC/APC)	Power Supply Included
SL-2150-TX-SC/APC	L-Band RF (950 - 2150 Mhz) fiber optic transmitter, with high performance DFB laser, low carrier-to-noise ratio, Specify 75 Ohm or 50 Ohm impedance with either BNC or F connector, 1310nm, Singlemode, 1 fiber	
SL-2150-RX-SC/APC	L-Band RF (950 - 2150 Mhz) fiber optic receiver, with high performance DFB laser, low carrier to-noise ratio, Specify 75 Ohm or 50 Ohm impedance with either BNC or F connector, 1310nm, single-mode, 1 fiber	
Optional Optical		
CWDM Wavelengths	Please contact factory or your local reseller	
Accessories		
RMT	3 unit rack-mounting kit, for three "triple" sized units in one RU	
BP-T	Blank panel for RMT rack-mounting kit	
HD-3000-PS	Spare Power Supply for HD-3000 & HD-1500 and Satlink units	



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