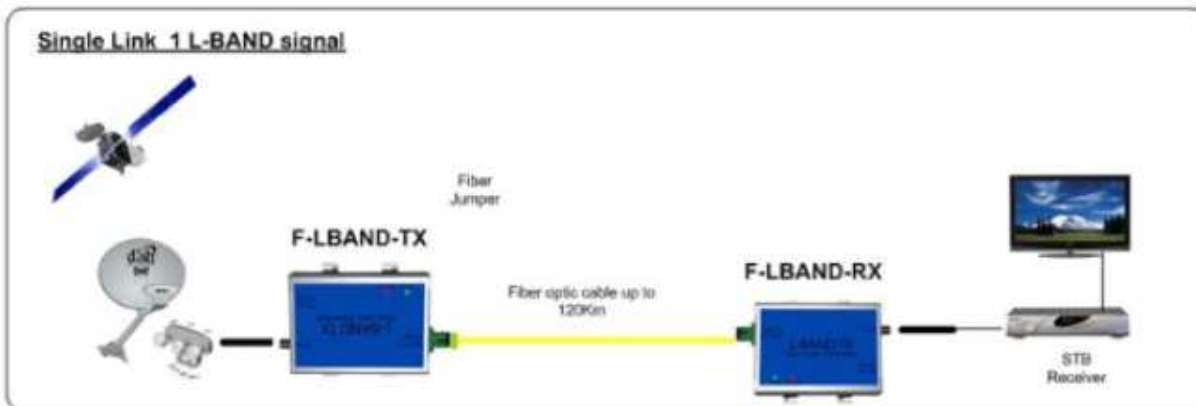


The L-Band Transmitter/Receiver pair are used for transporting L-Band RF signals from the antenna to the satellite receiver. L-band RF signals have a very limited range over coaxial cable, typically no more than a few hundred feet. By transporting the L-Band RF signal over optical fiber this range can be extended to over 75 miles. Fiber optic cables are much smaller and easier to work with than traditional copper coax. Additionally our units provides optional 13/18V LNB power as well as Automatic Gain Control (AGC) to manage RF input



Fiber optic transport of satellite signals is useful in many applications, such as transportation of signals from a remote satellite farm to a broadcaster's headend, uplink and downlink applications, and DBS services. We Offer CWDM multiplexing solutions for transportation of up to 8 distinct L-Band signals over a single fiber, as well as multicasting solutions over several different fibers via optical coupling. Custom solutions are available, contact us today for help with your specific L-Band needs.

## Typical L-BAND-Rx/Tx Application



## Technical Specifications

|                    |                     |                        |                      |
|--------------------|---------------------|------------------------|----------------------|
| Optical Wavelength | 1310-1550 nm FP/DFB | Power Consumption      | 3.5 W                |
| Output Power Range | 0dbm – 4dbm         | Power Supply           | 18V DC               |
| RF Frequency Range | 950 – 2600 MHz      | RF Connector           | F Female             |
| RF Input Level     | 55 – 78dB $\mu$ V   | Optical Connector      | SC/APC or by request |
| LNB Power          | 13 or 18 VDC 350 mA | Dimensions (H x W x D) | 118mmx210mmx40mm     |
| RF Return Loss     | 13 dB               | Weight                 | 0.25 Kg              |
| Input Impedance    | 75 Ohm              |                        |                      |
| CNR                | 40 dB               |                        |                      |
| IMD                | 40 dB               |                        |                      |