

Four Channel Rack Mount L-Band RF Over Fiber Link

Single fiber DWDM transport compatible with EDFA optical amplifiers.



The F-LB41 platform from Thor Fiber combines four independent L-Band transmitters and receivers into a common 19 inch rackmount enclosure with dual power supplies. The power supplies can be ordered for AC or DC power, and function in hot or cold standby mode. The optics in the standard model are DWDM type lasers.

These systems can be custom ordered with special optics or connectors for various applications, but the most common use is for remote location of satellite TV antennas. In the standard configuration, this system will support satellite TV services that have four coax cables coming from the antenna to the multiswitch. Options include optical power levels and for supplying DC voltage over coax to power LNBS or active antennas.

Product Specifications and Information Table

Transmitter Parameters		Optical Power Outputs	
Optical Wavelength	ITU-100GHz Type DWDM	Laser Rating = 2 mW	Optical Power Out = 3.0 dBm
Standard Wavelengths	1550nm Band, by request	Laser Rating = 4 mW	Optical Power Out = 6.0 dBm
RF Input Impedance	75Ω	Laser Rating = 6 mW	Optical Power Out = 8.0 dBm
Return loss	>12 dB	Laser Rating = 10 mW	Optical Power Out = 10. dBm
RF Frequency Response	45-2800 MHz model specific	Power Consumption	
RF Input Power Range	(-25) - (-14) dBmV	Power supply	DC 18V
RF Connector Type	F-Type, (Or by Request)	DC input voltage range	18V~24V
CNR	40 dB	Power consumption	3.5W±10%
IMD	40 dB	Environmental	
Receiver Parameters		Working temperature	-30 ~ 60°C
Optical Wavelength	Matched to Transmitter	Relative Humidity	≤95%, no condensation
Optical Power Range	-13 dBm - 0 dBm	Storage temperature	-40 ~ 85°C
RF Frequency Response	45 - 2800 MHz	Dimensions	
RF Connector Type	F-Type, (Or by Request)	Rackmount Enclosure	118mm×210mm×40mm