

## Single Channel Compact L-Band RF Over Fiber Link

Single fiber transport for radio signals up to 3.0 GHz fully customizable



**L-BAND**  
**900 MHz -**  
**3.00 GHz**

### Low Cost Radio Signal Transport

Thor F-LBAND systems are used to overcome the distance limitations of coax cables. The transmitter system converts incoming signals up to 3.0 GHz to light for long distance transmission over fiber optic cable. This increases the maximum distance between antennas and receiving equipment. These systems also decrease the cost of cabling and provide immunity to RF interference. Contact a sales representative for application specific information.

### Product Specifications and Information Table

Transmitter Parameters		Optical Input vs RF Out	
Optical Wavelength	1310nm, 1550nm (optional)	Optical Input = 0 dBm	RF Out = 88 dBμV
Optical Power Output	+2.0 dBm +/- 2 dB	Optical Input = -3 dBm	RF Out = 82 dBμV
RF Input Impedance	75Ω	Optical Input = -6 dBm	RF Out = 74 dBμV
Return loss	>13dB	Optical Input = -9 dBm	RF Out = 68 dBμV
RF Frequency Response	45 - 3100 MHz	Optical Input = -12 dBm	RF Out = 63 dBμV
RF Input Power Range	55 - 78 dBμV	Power Consumption	
RF Connector Type	F-Type, (Or by Request)	Power supply	DC 18V
CNR	40 dB	DC input voltage range	18V~24V
IMD	40 dB	Power consumption	3.5W±10%
Receiver Parameters		Environmental	
Optical Wavelength	1290 - 1610 nm	Working temperature	-30 ~ 60°C
Optical Power Range	-13 dBm - 0 dBm	Relative Humidity	≤95%, no condensation
RF Frequency Response	45 - 3100 MHz	Storage temperature	-40 ~ 85°C
RF Connector Type	F-Type, (Or by Request)	Dimensions	
		Desktop Enclosure	118mm×210mm×40mm