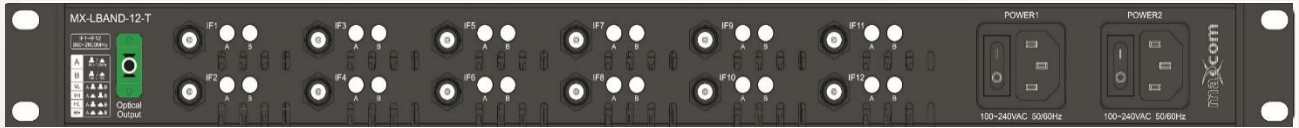




# L Band Optical Transmitter Data Sheet



## PRODUCT FEATURES

- 950-2600MHz operating bandwidth, transmitting all L Band analog and digital satellite signals
- Excellent P/P ratio

## MAIN APPLICATION

- Satellite L Band fiber distribution system
- Satellite L Band fiber link

### TECHNICAL INDEX

#### Optical feature

Performance	Unit	Min.	Typ.	Max.	Supplement
Operating wavelength	(nm)	1260		1620	
Output ports			1		
Return loss	(dB)	50			
Optical connector			SC / APC		
Fiber type			Single mode		

#### SAT feature

Performance	Unit	Min.	Typ.	Max.	Supplement
Operating bandwidth	(MHz)	950		2150	
Input range	(dBm)			-27	Avail up to 2600
Flatness	(dB)	-2.0		+2.0	
Return loss	(dB)		10		
Input impedance	(Ω)	75			
To LNB voltage	(V)		13/18		
To LNB current	(mA)			300	
Input connector			F-Female		

#### General feature

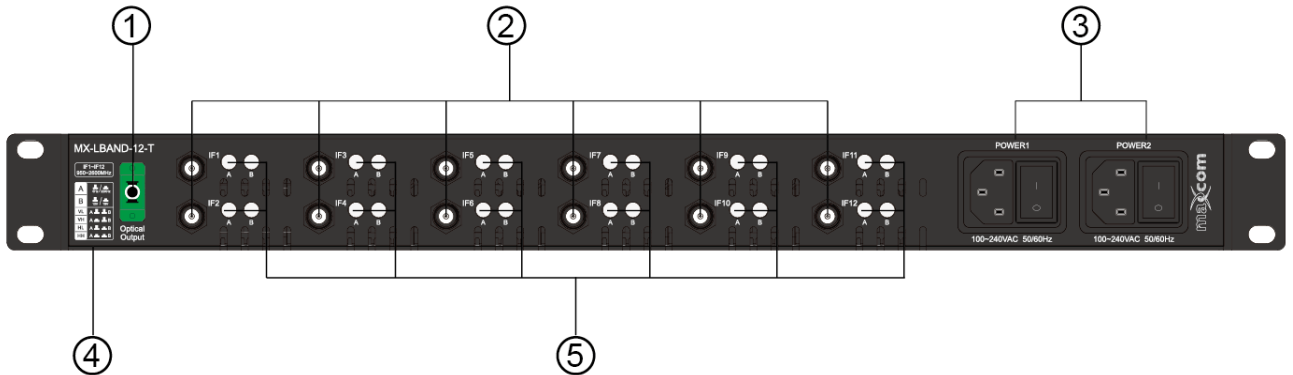
Performance	Unit	Min.	Typ.	Max.	Supplement
Power supply	(V)	90	220	265	VAC
Power consumption	(W)			50	
Operating temp.	(°C)	-5		+65	
Storage temp.	(°C)	-45		+85	
Relative humidity	(%)	5		85	
Size	(mm)		483 × 250 × 44		1U

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## MX-LBAND-12-T

### Panel diagram



- ① Optical Output, SC/APC
- ② SAT-IF Inputs
- ③ 1+1 Power, Supply Backup
- ④ Status Explanation of Control Signal Button
- ⑤ Control Signal Button

## Front Panel Operation Instructions

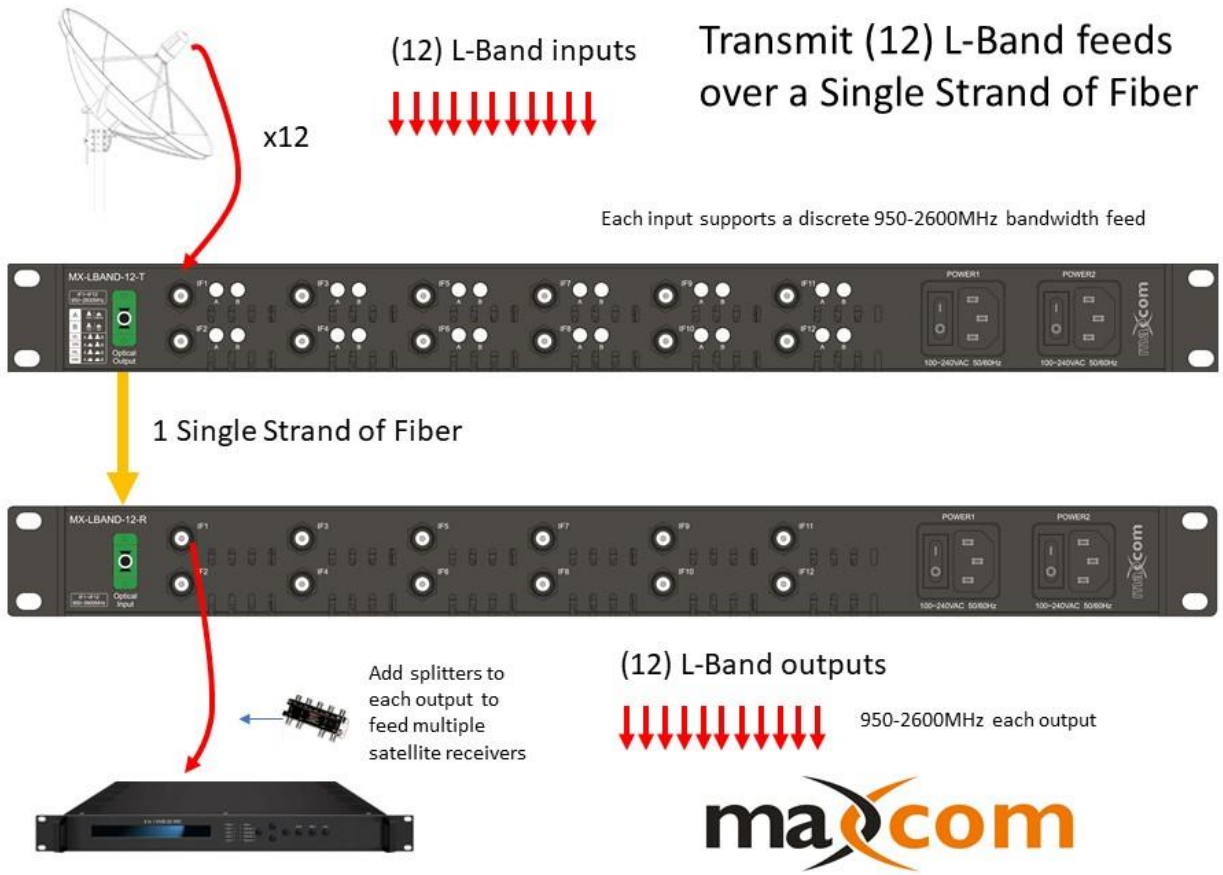
Several LNB types require voltage and/or signaling. The transmitter provides options as may be required for the desired results or control. Note that there are two push buttons (button 'A' and 'B') to the right of each input RF connector. The button sequences determine the following modes:

- 'A' button - 'Out' position = 0 Hz (no tone)
- 'A' button - 'In' position = 22KHz tone
- 'B' button - 'Out' position = 13 Volts DC
- 'B' button - 'In' position = 18 Volts DC

Common settings for some satellite LNB's:

- VL: button A out, button B out
- VH : button A in, button B out
- HL: button A out, button B in
- HH: button A in, button B in

# Application Example Diagram



Maxcom can easily customize our L-Band products to your requirements. Standard units support 10kn distance, we have options available for longer haul applications as well. Please contact a Maxcom representative to help you with your application.

- **MX-LBAND-12-T** - 12 input L-Band Fiber Optic Transmitter (available in 10km, 12km, 25km, and 42km distances)
- **MX-LBAND-12-R** - 12 output L-Band Fiber Optic Receiver