

TECHNICAL DATASHEET

F-RF-1310-TX-4mW

4mW CATV RF Over Fiber Optical Transmitter (45-870 MHz)



The F-RF-1310-TX-4mW is a 1310nm CATV RF over fiber optical transmitter for Television RF signals from 45-870 MHz. It converts any incoming RF signal within this band to optical RF and transports all channels over one fiber. The system features a highly linear DFB laser with automatic adjustment circuitry and Automatic Gain Control (AGC) for stable performance and easy setup. The unit supports point-to-point links and point-to-multipoint networks when combined with PLC splitters. Use SC/APC angle-polished connectors to minimize optical reflections.

Key Features

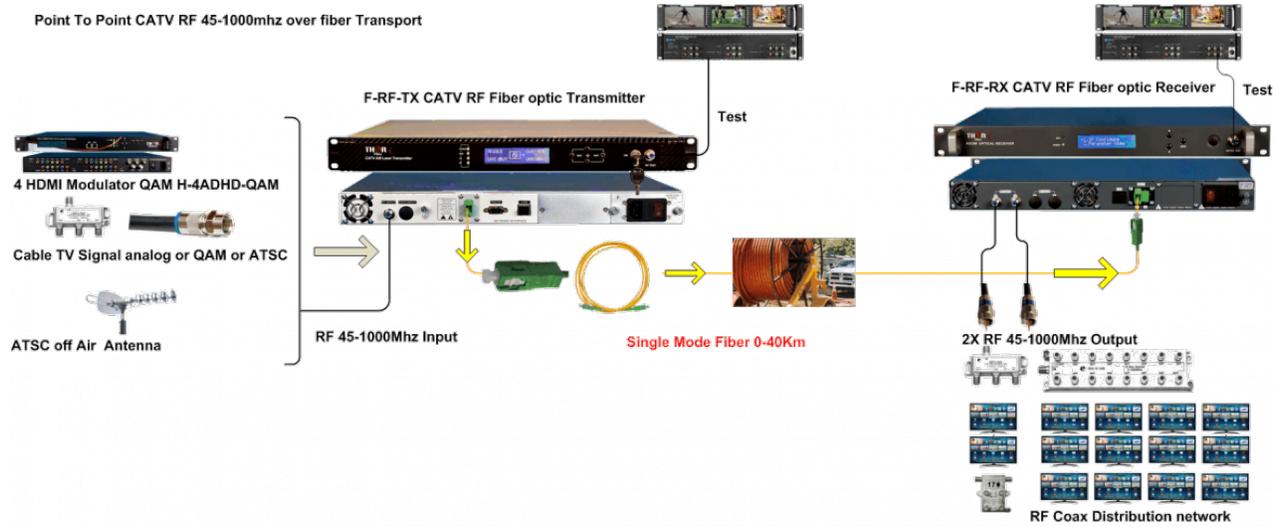
- 4 mW optical power output from sensor feedback controlled laser system
- Transports entire 45-870 MHz band even with full channel lineups
- Create high security "fiber breaks" to eliminate coax signal return path
- Automatic Gain Control (AGC) manages RF level with no adjustment needed
- Compatible with Thor RFoG CATV series optical receiver systems



Technical Specifications

RF / OPTICAL / MECHANICAL	
RF Input	1x Type-F connector - 75 Ohm
Optical Wavelength	1310 nm
Line Width (FWHM)	< 1 MHz
Extinction Ratio	> 20 dB (XP)
Equivalent Noise Intensity	< -160 dB/Hz
Optical Output Power	4 mW (+6 dBm)
Optical Return Loss	> 55 dB
Optical Connector	SC/APC (Angle Polished)
RF Power Level	11-29 dBmV (AGC Managed)
Flatness	< +/- 0.75 dB (45-862 MHz)
SBC Restraint	> 17 dBm
CNR	> 50 dB @ 10 km fiber length
CTB	< -63 dB
CSO	< -57 dB
Dimensions	19 x 10 x 1.75 inch
Weight	2.5 kg
Operating Temperature	0 to 45 C
Note	Specifications subject to change without notice.

Typical Application



Product Page QR Code



<https://thorbroadcast.com/product/4-mw-catv-rf-over-fiber-tx-45-870-mhz.html>