

## TECHNICAL DATASHEET

### Thor RF Fiber Break – Optical RF Coax Isolation Solution

Optical Isolation for CATV / ATSC / Broadband RF Systems



The Thor RF Fiber Break is an optical RF coax isolation solution designed to eliminate ground loops, lightning-induced surges, and electrical interference in CATV and RF distribution systems. The system converts RF coax signals to optical fiber for isolated transport over single mode fiber and reconverts them back to RF at the destination.

### Key Features

- Complete RF coax electrical isolation over fiber
- Eliminates ground loops and lightning surge risks
- Supports CATV, ATSC, and broadband RF signals
- Single mode fiber transport up to 20km
- Low distortion and high CNR performance
- 1U rack transmitter with compact receiver unit

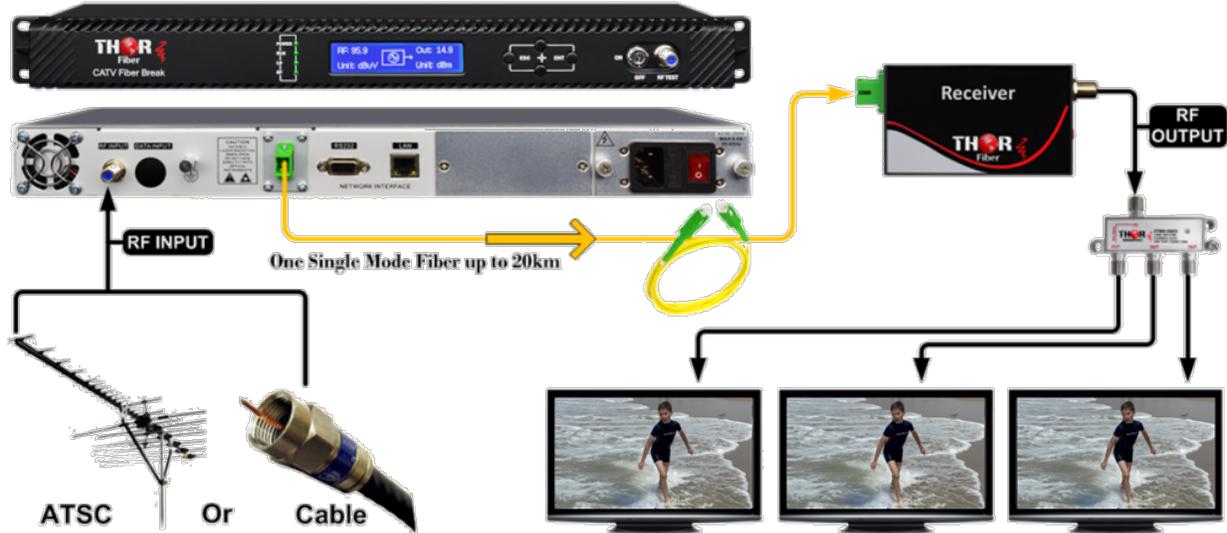


## Technical Specifications

RF Frequency Range	45-1000 MHz
RF Input / Output	75 Ohm F-Type
Optical Wavelength	1310 nm
Fiber Type	Single Mode
Max Distance	Up to 20 km
CNR	> 50 dB
CTB	< -60 dB
CSO	< -57 dB
Operating Temperature	0 to 45 C
Power Supply	AC 90-250V (TX) / External DC (RX)
Form Factor	1U Rack TX + Compact RX

## Typical Application

### RF Fiber Break - optical RF COAX isolation solution



### Product Page QR Code



<https://thorbroadcast.com/product/rf-fiber-break-optical-rf-coax-isolation-solution.html>