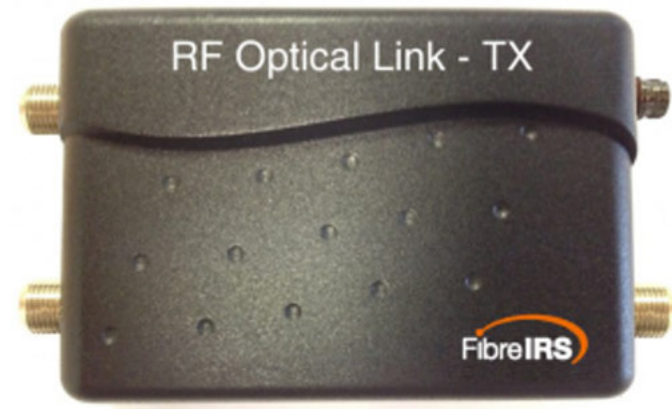


OPT LINK-F813009



RF Optical Link Tx RF Coax -> Opt.

Manufacturer: [GLOBAL INVACOM](#)

Description

The RF optical link system has been designed to allow one satellite polarity with FM,DAB and DTT to be distributed over single fibre.

For additional polarities extra transmitter units can be daisy chained together (Maximum 4) from one power supply. This enables one satellite to be distributed over 4 fibres.

Benefits:

- Simple link over fibre
- Single PSU for multiple transmitters
- Cost effective
- 10km range

Optical			
Parameter	Min	Max	Notes
Optical Wavelength Tx (nm)		1310	±40nm
Optical Wavelength Rx (nm)	1100	1600	
Return loss (dB)	20		
Optical power Tx only (dBm)		7	

SAT, DTT, DAB and FM (Electrical)			
RF frequency range			
DTT	470-862MHz		
DAB	174-240MHz		
FM	88-108MHz		
SAT	950-2150MHz		
TOTAL	50-2350MHz		
Nominal impedance			
75Ω			
Return loss			
9dB			
Input power DTT (Tx)		60dBμV	92dBμV
DAB power levels need to be set 14dB below DTT FM power level needs to be same as DTT. DTT +7dB with respect to satellite			
Input power SAT (Tx)		60dBμV	85dBμV
Gain variation across band			
4dB			

DC specification			
Input voltage range			
		12V to 20V	
LNB supply voltage			
		12V to 20V	Fed through RF IN
Current consumption Tx			
		<200mA	Excluding LNB
Current consumption Rx			
		<140mA	

Connectors (Tx)		Environmental Specification	
Output	Fibre Optic FC/PC	Operating temperature	-20 to 55°C
DTT/DAB/FM	F	Storage temperature	-20 to 65°C
Power supply in/out	F		

Connectors (Rx)		Optical cabling	
RF Out / Ter out	F	Fibre type	Single mode
Input	Fibre Optic FC/PC	Standard	GI - approved G657a
Power supply	2.1mm Jack		

Dimensions		Laser Classification	
Size	85 x 55 x 25 mm		
Weight		Class 1M	