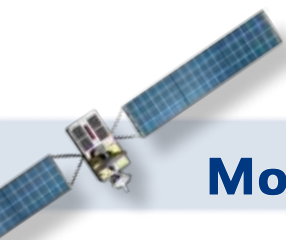




OUTDOOR SINGLE RF Over FIBER LINK

EXTENDED BAND = 50 – 3.000 MHz



RF Over FIBER

Mod. **ROF1-TX**



RF Over FIBER

Mod. **ROF1-RX**



- IP65 waterproof Aluminium housing with hinges
- Designed for SATCOM & TELECOM Applications
- AGC & MGC gain control
- RF Input Monitor Port
- LNB Powering, 13/18 V & 22 Kh
- Monitoring LED for optimal Performance
- Redundant 12 V dc PSU

**INNOVATIVE
PERFORMANCE**

for: SYSTEM INTEGRATOR,
TELEPORT BROADCASTER,
CABLE NETWORK, GOVERNMENT
& MILITARY COMMUNICATIONS

CE DVB

WTA
MEMBER

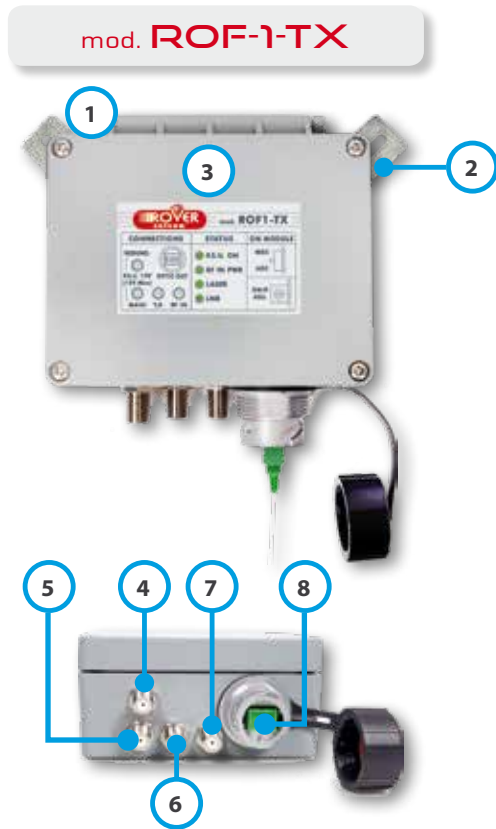


1972 > 2021 >>

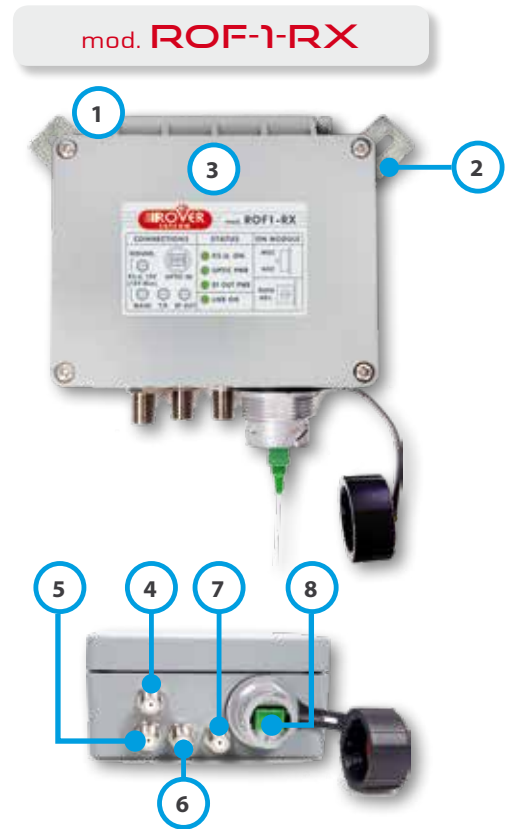
49 YEARS OF INNOVATION

- Professional RF over FIBER Single Link (50 - 3.000 MHz)
- Aluminium Outdoor case with wall mount Supports included
- RF Level Test Point @-20 dB for level Monitoring
- TX equipped with Coax DFB single mode Laser 1.310 nm to 1.650 nm
- RX equipped with Optical Photodiode PIN from 1.100 nm to 1.650 nm
- Redundant 12V dc PSU Input to warranty the Quality of Service

PHYSICAL & CONNECTIONS

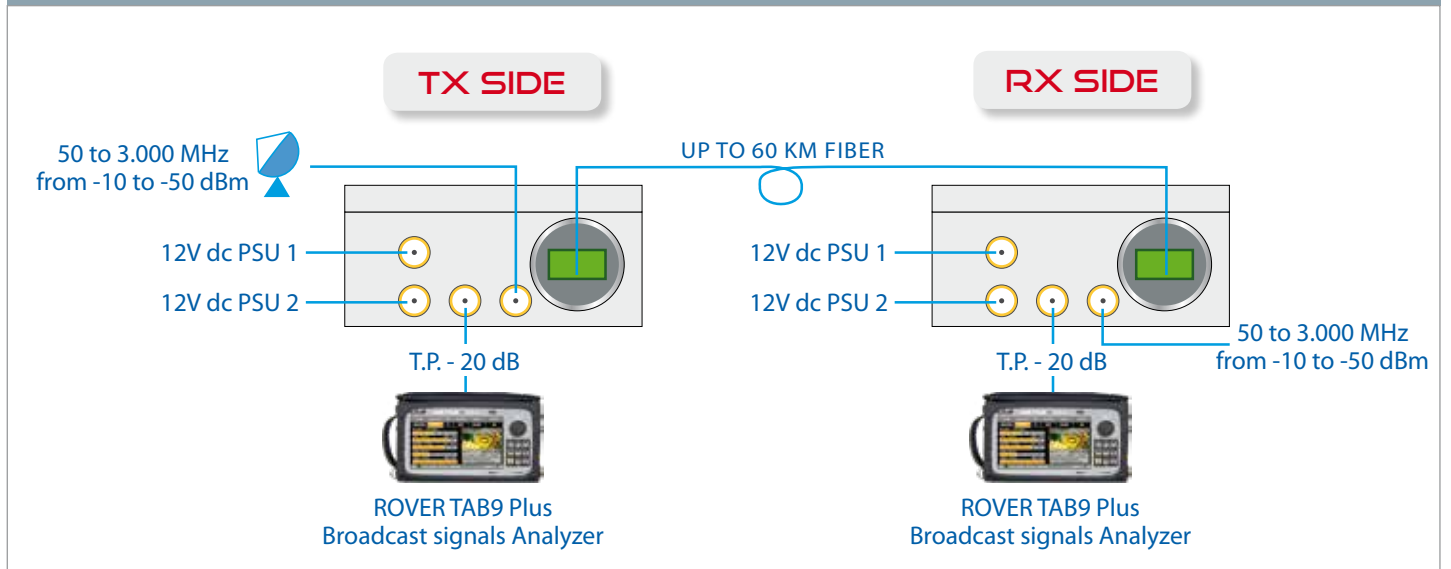


1. Cover Hinges
2. Wall fixing bracket
3. Aluminium Outdoor IP65 case
4. PSU Input 12 V dc
5. PSU Redundancy or Transit 12 V dc
6. Level test point - 20 dB
7. RF Input 50 - 3.000 MHz
8. LASER Output 1.310 nm/1.550 nm



1. Cover Hinges
2. Wall fixing bracket
3. Aluminium Outdoor IP65 case
4. PSU Input 12 V dc
5. PSU Redundancy or Transit 12 V dc
6. Level test point - 20 dB
7. RF Output 50 - 3.000 MHz
8. OPTICAL Input 1.100 / 1.650 nm Photodiode

EXAMPLE OF SINGLE RF OVER FIBER LINK APPLICATION



mod. ROF-1-TX



RF PARAMETERS

- RF Input frequency range: 50-3000 MHz
- Flatness: +/- 1.5 dB
- 36 MHz Flatness: +/- 0.3 dB
- RL: > 14 dB (75 ohm)
- Noise Figure: < 10dB @ max gain
- IMD: 50 dBc@ 2 tones -13 dBm
- OP1: + 5 dBm (RMS)
- RF Input power Range: - 50 to -10dBm (RMS)
- RF Damage Input Level: + 15 dBm (RMS)
- RF adjustable Gain: 30 dB (AGC/MGC) with internal settings
- LNB powering with external adapter: ... 0, 13V, 18V, 22 KHz, 600 mA.
- Test Point output level: @ -20 dB of RF input

OPTICAL TRANSMITTER

- Power output: 4.5 dBm
- Wavelength: 1310nm /1550 nm
- Connectors: water protected SC/APC
- LASER: DFB, Class 1M
- MAX Transmission distance 60Km @ 1310nm or 90Km @ 1550 nm

OTHERS

- Casing: ODU IP 65
- Visible Status LEDs for: PSU, RF power input, Laser and LNB
- Redundant external power supply
- Operating temperature: - 40°C to 55°C
- Weight: 400g
- Size: 115 X 100 (133 including connectors) X H57 mm

mod. ROF-1-RX



RF PARAMETERS

- RF Output frequency range:50-3000 MHz
- Flatness: +/- 1.5 dB
- 36 MHz Flatness: +/- 0.3 dB
- RL: > 14 dB (75 ohm)
- Noise Figure: < 10dB @ max gain
- IMD: 50 dBc@ 2 tones -13 dBm
- OP1: + 5 dBm (RMS)
- RF Output Power Range: - 50 to -10dBm (RMS)
- RF adjustable Gain: 30 dB (AGC/MGC) with internal settings
- Test Point output level: @ -20 dB of RF output

OPTICAL RECEIVER

- GAIN : automatic or manual
- Input power sensitivity range: - 20 to +4 dBm
- Wavelength: 1100 to 1650 nm
- Connectors: water protected SC/APC
- Input power measurement: - 30 to +5 dBm
- Photodiode: PIN

OTHERS

- Casing: ODU IP 65
- Visible Status LEDs for: PSU, Optic pwr and RF output pwr
- Redundant external power supply
- Operating temperature: - 40°C to 55°C
- Weight: 400g
- Size: 115 X 100 (133 including connectors) X 57 mm



CHASSIS ORDERING MODEL / CODE EXAMPLE

MODEL/CODE	DESCRIPTION	APPLICATION
ROF1-TX-1310	Outdoor RF over FIBER Transmitter, Wavelength 1310 nm, with Double redundant PSU Input, - 20 dB Level Test Point, Monitoring LED, IP65 waterproof aluminium housing with hinges.	
ROF1-TX-1550	Outdoor RF over FIBER Transmitter, Wavelength 1550 nm, with Double redundant PSU Input, - 20 dB Level Test Point, Monitoring LED, IP65 waterproof aluminium housing with hinges.	
ROF1-RX	Outdoor RF over FIBER Receiver, Wavelength 1100 - 1650 nm, with Double redundant PSU Input, - 20 dB Level Test Point, Monitoring LED, IP65 waterproof aluminium housing with hinges.	



ROVER Laboratories and offices



ROVER Goods entrance & production

V.1 12-1-21



Product
made in Italy by
Rover Broadcast.com

CERTIFICATES N°
1263 ISO 9001
1264 ISO 14001
1265 ISO 45001



Specifications and features are subject to change without notice.

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