

Fully Designed & Made in Italy

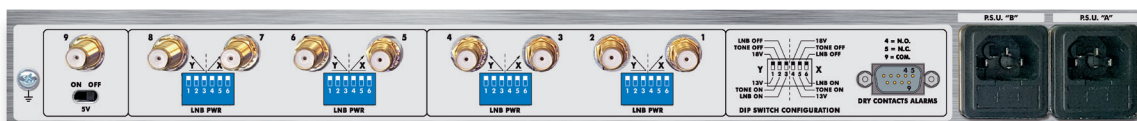
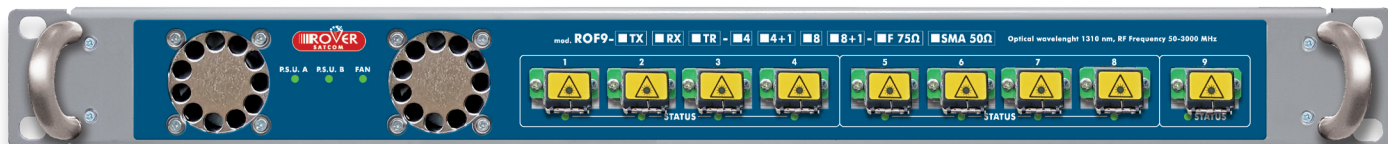


# NEW RF Over FIBER LINKS

50 - 3000 MHz • For SATCOM - VHF / UHF - GPS - VSAT - SNG

RF over FIBER 9 Modules Indoor Unit

## Mod. ROF9-IU-X-X



RF over FIBER 4 Modules Indoor Unit

## Mod. ROF4-IU-X-X



**INNOVATIVE PERFORMANCE**

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



1972 > 2025 >>

MORE THAN 53 YEARS OF TECHNOLOGY INNOVATION

These Products are very well shielded and specially designed to create fixed or temporary RF over Fiber Links in a reliable, simple and fast way.

This new range of links includes by 1 unit rack with up to 8+1 RF over fiber modules (ROF 9) and a modular equipment with 4 modules (ROF 4). They can be configured as TX, RX, or mixed as a Transceiver.

Due to exceptionally Wide Dynamic Range these modules can be used for many different applications, example: Wireless Camera and Microphone systems, Satcom applications, VHF & UHF signal transport, Mobile Sat Link, GPS & GNSS applications, Far Field antenna test, ESD testing, SNG News Gathering.

Upon request Rover can supply the modules with different Presets or Adjustable Link gain and different Optical and RF connectors. Our Sales and Technical staff are available to support and advise for whatever need.

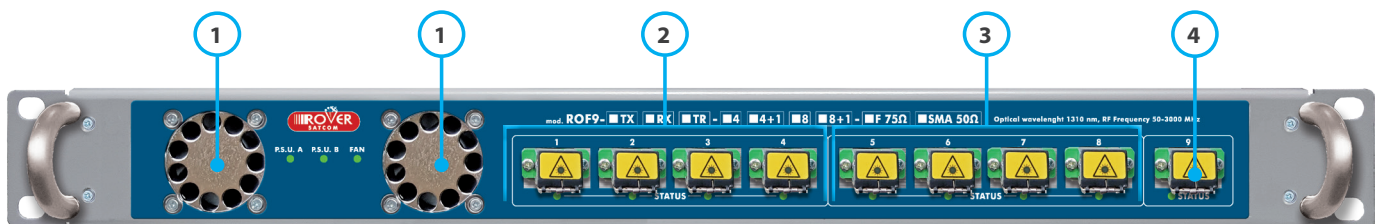
## MAIN FEATURES

- Transport all formats: DVB-T2/S2/C-ATSC-DAB-FM-GPS-GNNS
- Protected LNA/LNB feed with resettable fuse
- Exceptional Wide Dynamic Range
- Analog Monitor Alarm Output for: TX laser current/Received Optical power
- Compatible with Other Links

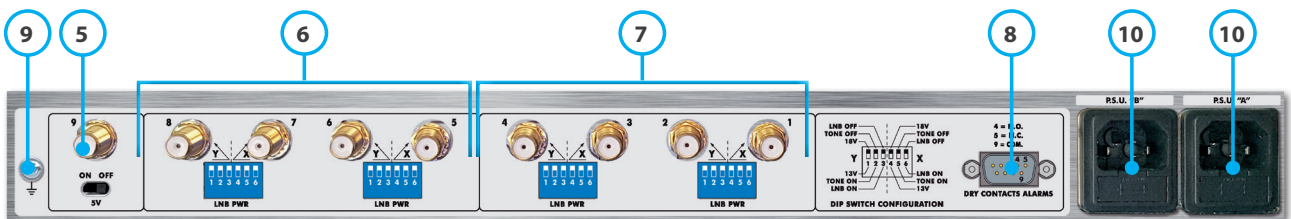
## BENEFIT

- Presettable Link gain: from -10 to +20 dB
- RF IN power Measurement (TX)
- RF OUT power Measurement (RX)
- 5 Vdc to RF IN for GPS-GNNS Active Antenna
- Multiple TX or RX in a single unit
- Transceiver version available, TX & RX
- 1310 or 1550 nm version available
- 13/18 Vdc to RF IN for LNB powering & 22 KHz

## ROF - 9 IU FRONT / REAR PANEL DESCRIPTION

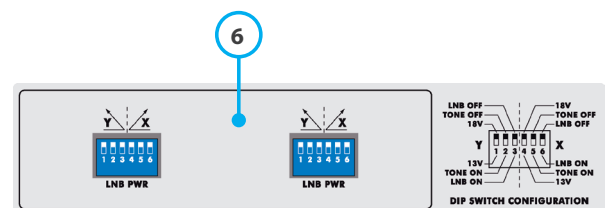
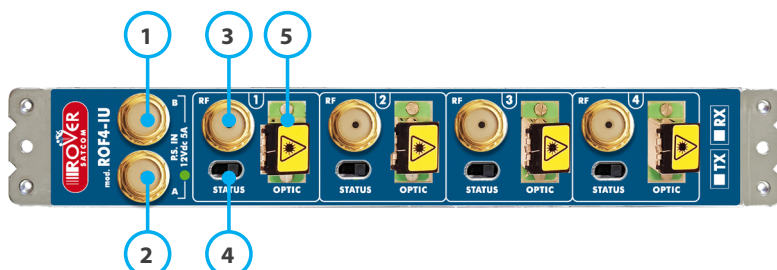


1. Built-In Fan
2. N. 4 Optical TX/RX Modules
3. N. 4 Optical TX/RX Modules
4. N. 1 Optical Module TX/RX for TER or GPS



5. RF IN/OUT for TER or GPS
6. N.°4 RF IN/OUT for L-BAND & LNB Pwr (only TX)
7. N.°4 RF IN/OUT for L-BAND & LNB Pwr (only TX)
8. Sub-D Dry 9 Contact Alarm and Remote Reset
9. Ground Screw
10. Mains and Fuse Receptacle

## ROF - 4 IU FRONT / REAR PANEL DESCRIPTION

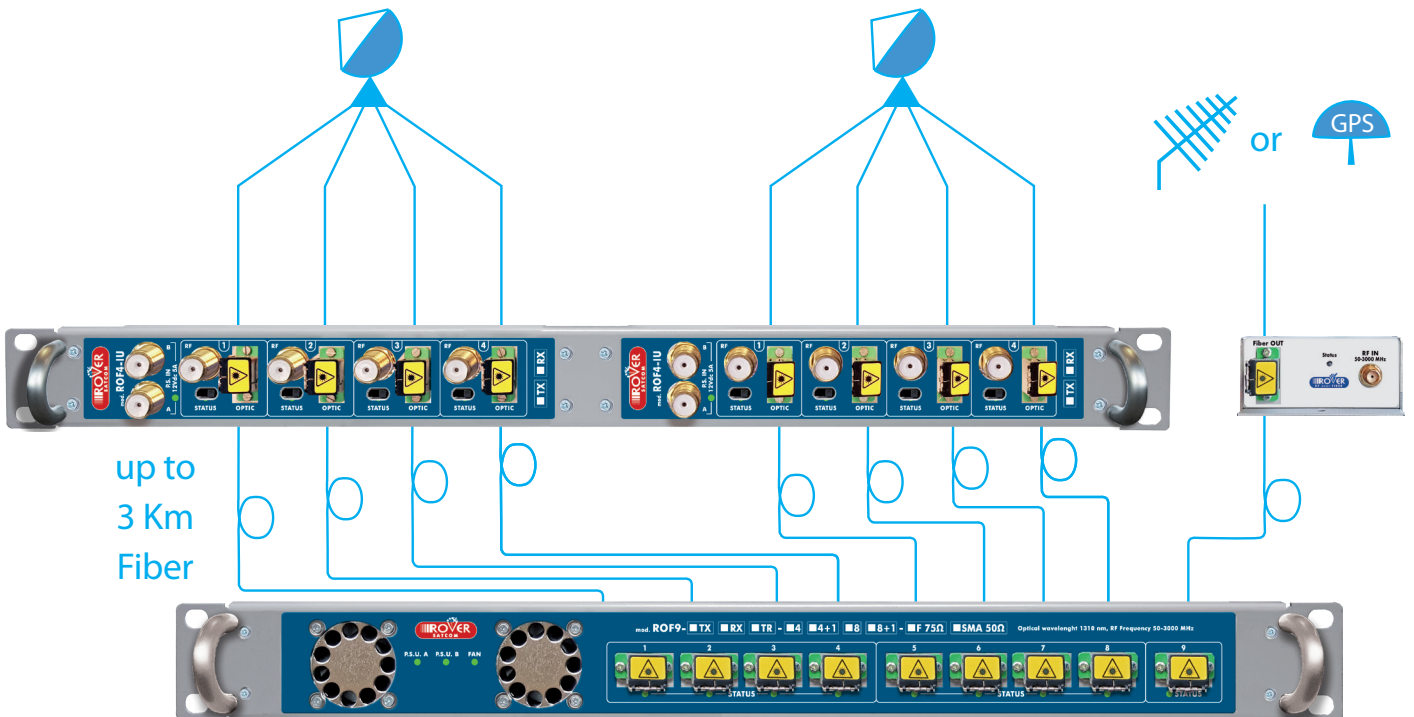
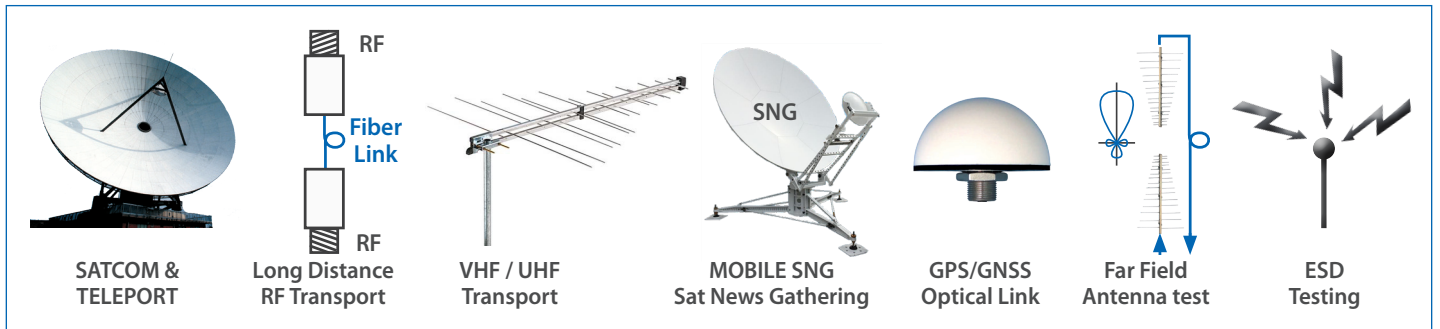


1. PSU "B" 12 VDC
2. PSU "A" 12 VDC
3. RF IN/OUT for L-BAND
4. 13 V 500 mA LNB Pwring
5. Optical TX/RX Module
6. LNB Power Switch (only for TX)

## OPTICAL LINK SPECIFICATIONS

FREQUENCY RANGE	50-1000 MHz	50-3000 MHz		
Flatness any 36 MHz	0,25 dB		Max RF IN power no damage	10 dBm Max 15
Flatness in band	± 1 dB	± 1,5 dB	GPS-GNNS antenna feed	5 Vdc, Max 30 mA short circuit protected
Noise Figure	14 dB	16 dB	Optical Connector	SC / APC
Noise Figure at 5 dB Optical Loss	19 dB	20 dB	Optical Wavelength nm	1310 or CWDM
Input P1 dB	2 dBm	0 dBm	Optical CWDM Wavelength MUX/DEMUX	8 ch 1470 to 1610 or 16 ch.
Input IP 3	14 dBm	12 dBm	TX Laser type	isolated DFB
Link Gain (on request)	0 or 10 or 20 dB		TX Laser Optical power	4,5 dBm
Link Gain stability over temp. -20/+60° C	± 1,5 dB		LED Alarm	Green = OK • Red= Alarm
RF Impedance IN-OUT	50 or 75 Ω		Operating Temperature	Typ. - 10° to +50° C
Return Loss IN-OUT 50 Ω	18 dB	16 dB	Umidity	95% non condensating
Return Loss IN-OUT 75 Ω	16 dB	14 dB	Cooling System	Convection
RF IN-OUT Connector type	75 Ω / F		Power Supply ROF 4	Redundant 12 Vdc 5A
SFDR	111 dB		Power Supply ROF 9	Redundancy 220 Vac
Optical Budget/Km Distance 1310/1550 nm	up to 30 / 45 Km			

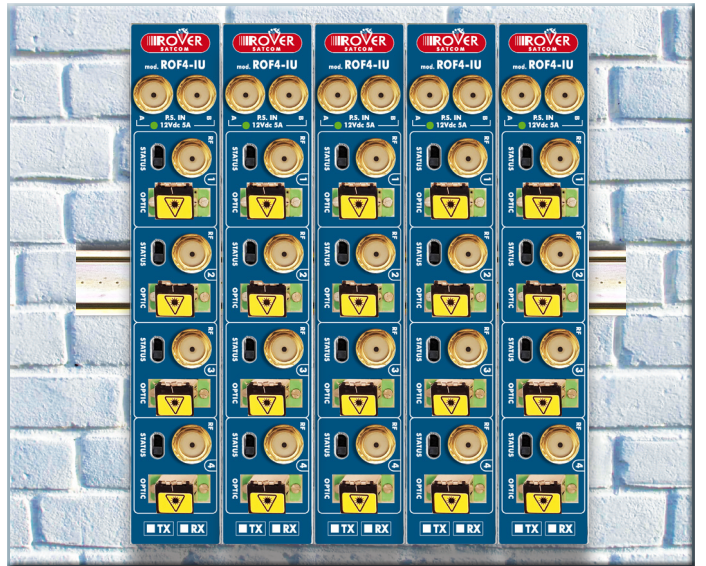
## APPLICATION EXAMPLES



# ROF-4 ASSEMBLING EXAMPLES



DIN RAIL ASSEMBLING



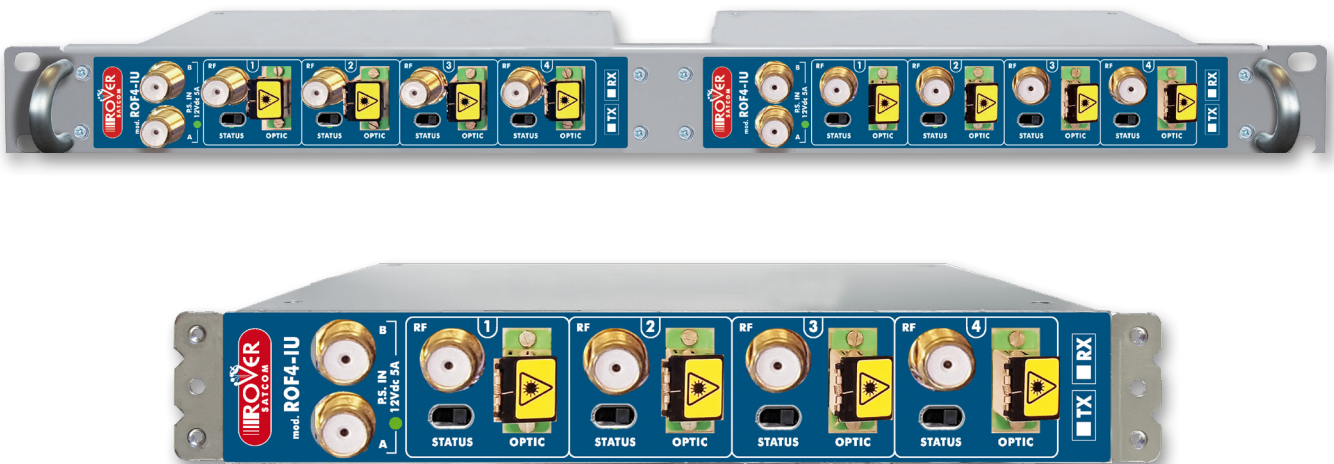
MULTIPLE DIN RAIL ASSEMBLING



FLAT WALL ASSEMBLING



FLAG WALL ASSEMBLING



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



Product  
made in Italy by  
RoverLaboratories.com



Specifications and features  
are subject to change without notice.

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