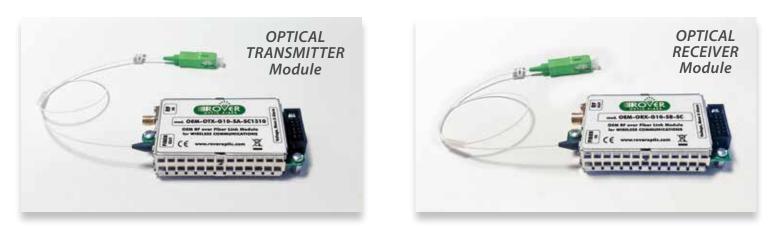


COMPACT OEM MODULES for RF Over Fiber Link 50 - 1000 MHz & 50 - 3000 MHz • For Wireless Cameras & Microphones

Mod. OEM-OTX1-F-G10-SA-SC-1310

Mod. OEM-ORX1-F-G10-SB-SC



These compact OEM modules are very well shielded and specially designed for **Wireless Cameras** and **Microphones in the Broadcast world**.

Due to exceptionally Wide Dynamic Range these modules can be used in Wireless Camera systems using COFDM modulation and diversity reception.

The modules can be also easily integrated in your broadcast equipments with long or short fiber cable length.

Upon request Rover can supply the OEM modules with different 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
- Very low Consumption
- Exceptionally Wide Dynamic Range
- Analog Monitor Out for: TX laser current/Received Optical power
- Compatible with Other Links
- 5 Years Warranty, reliable support

OPTIONAL

- Protected LNA/LNB feed with resettable fuse
- 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
- CWDM, Up to 4, 8 or 16 channels in 1 Fibre

INNOVATIVE PERFORMANCE

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



1972 > 2023 >>

51 YEARS OF TECHNOLOGY INNOVATION

	0	PTICAL LII	IK SPECIFICATIONS	
FREQUENCY RANGE	50-1000 MHz	50-3000 MHz	Measur. of the RF pwr at the RX OUT	optional via MOLEX PIN
Flatness any 36 MHz	0,25 dB		Measur. of the RF pwr at the TX IN	optional via MOLEX PIN
Flatness in band	± 1 dB	± 1,5 dB	Module power Supply	$12 \text{ Vdc} \pm 4 \text{ V}$
Noise Figure	14 dB	16 dB	PSU Current TX/RX	TX 110 mA/RX 90 mA
Noise Figure at 5 dB Optical Loss	19 dB	20 dB	Optical Connector on request	SC or FC or LC or E2000
Input P1 dB	2 dBm	0 dBm	•	
Input IP 3	14 dBm	12 dBm	Optical Wavelenght nm	optional 1330 or 1550
Link Gain (on request)	0 or 10 or 20 dB		Optical CWDM Wavelenght MUX/DEMUX	8 ch 1470 to 1610 or 16 ch.
Link Gain stability over temp20/+60° C	± 1,5 dB		TX Laser type	isolated DFB
RF Impedance IN-OUT	50 or	75 Ω	TX Laser Optical power	4,5 dBm
Return Loss IN-OUT 50 Ω	18 dB	16 dB	Open drain collector Alarm	Open = Alarm • $CURRENT = OK$
Return Loss IN-OUT 75 Ω	16 dB	14 dB	LED Alarm	Green = OK • Red= Alarm
RF IN-OUT Connector type	SMA 50 Ω or SMB 75 Ω		Operating Temperature	Typ 10° to +50° C
SFDR	111 dB		Umidity	95% non condensating
Optical Budget/Km Distance 1310/1550 nm	up to 30 / 45 Km			5
Max RF IN power no demage	10 dBm Max 15		Cooling System	Convection
Protected BiasTee to RF input via standard Molex PIN	Optional 500 or 700 mA, 28 Vdc, with Resettable fuse		Power Supply & Alarms Molex Connector	Molex 906351141 - 14 PINS Male
			Module dimensions	77 x 40 x 18,4 mm
GPS-GNNS antenna feed via Molex PIN	Structure <t< td=""><td>Module weight</td><td>TX: 65 gr • RX 58 gr</td></t<>		Module weight	TX: 65 gr • RX 58 gr
	МО		DEL CONFIGURATION	
	F = Fixed Gair V = Variable G	ז SI	= SMB 75 Ω RF connector 1310 = Wavelenght 1 = SMA 50 Ω RF connector 1550 = Wavelenght 1	
OEM - OTX	<u>×1</u> ,-F	- <mark>G10</mark>	- SB - SC - 1310	D-RMY

ハヘト OTX1 = TX - RF IN - Optic OUT

ORX1 = RX - Optic IN - RF OUT

 $\begin{array}{r} G10 = 10 \text{ dB gain} \\ G0 = 0 \text{ dB gain} \\ G20 = 20 \text{ dB gain} \end{array}$

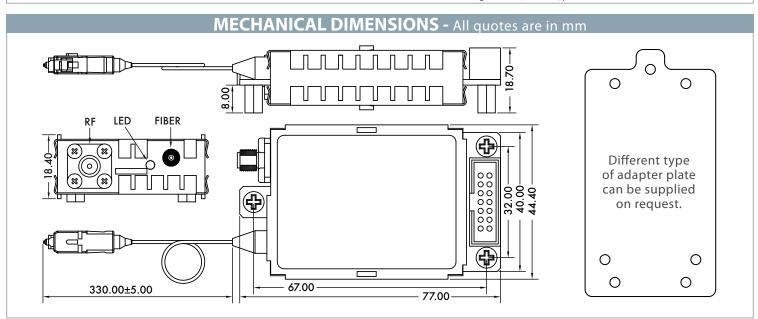
SC = SC/APC Connector E2 = E2000 Connector SP = SC/PC Connector LC = LC/APC Connector FC = FC/APC Connector

RMY = RF Monitor YES RMN = RF Monitor NO

PIN OUT MOLEX CONNECTOR

MOLEX		PIN N. Color Function description		Function description	
1	00		1	-	free
3	0 0	4	2	-	optional do not connect
5	0 0	6	3	-	+ 5 Vdc 30 mA Max
7	0 0	8	4	-	optional do not connect
9	0 0	10	5	-	Alarm Output (open drain)
11	0 0	12	6	-	Tx: Optical PWR
13	0 0	14	7	-	Module Pwr Supply = $12 \text{ Vdc} \pm 4 \text{ V}$

8	-	Supply Vdc grounding			
9	-	free			
10	-	free			
11	-	Supply Vdc grounding			
12	-	optional Tx = RF pwr IN	optional Rx = RF pwr OUT		
13	-	Tx: LNA LNB Feed *	Rx: Not Used		
14	-	Analogue Monitor Output			
		Tx: Laser current	Rx: RLL (Received Light Level		





Product made in Italy by Rover Broadcast.com



Specifications and features are subject to change without notice.

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