RF Components

Model Number:
SRY-RX-L1-924

- Compact waterproof housing
- Redundant hot swap external power supply
- LED indicators for module & power and status
- For use with ETL's L-band transmit units.

Available with RF connector options:
- 50 Ω N-Type
- 75 Ω F-Type

L-Band RF Over Fibre ODU

1100 to 1650nm Receive
850MHz to 2450MHz

Compact & Weatherproof
Housed in IP65 rated waterproof enclosure

850-2450 MHz
Operating Frequency

Flexible Mounting
Band on to pole or bolt to wall

StingRay

RF Parameter			
Capacity	One RF over FIbre Optical Receive Unit		
Power Connector	1K - LEMO FGL.1K.302.CLLK75Z		Cable mount LEMO 1K series 2 pin
Input ports	50Ω N-type, 75Ω F-type.		Do not connect to power source.
Fibre output connector	Senko IP-SC/APC		
Frequency	850MHz to 2450MHz		
Connector & impedances	50Ω N-type	75Ω F-type	
Input Return Loss (dB) Typ.	18	16	
Min	12	12	
Output Return Loss (dB) Typ.	NA	NA	
Min			
Gain flatness (dB)	±2.0	±2.0	Across band
Output AGC flatness	±2.0 dB over full band		Tx Input -10 to -40 dBm
OIP3 (dBm)	Typical 17 dBm Worst Case 14 dBm		Test condition: SRY-RX-L1-924, 0 dB optical link loss, -22 dBm tones at 2150 and 2152 MHz
CNR (in any 36MHz) (dB)	Typical -50 dB Worst Case -45 dB		Test condition: SRY-RX-L1-924, 0 dB optical link loss, -10 dBm RF i/p power, -10 dBm RF o/p total power.
NF (dB)	Typical 12dB Worst Case 15dB		Test condition: SRY-RX-L1-924, 0 dB optical link loss, -50 dBm RF i/p power, -10 dBm o/p power
Group Delay variation (ns)	2 over full band 1 over any 36MHz.		
SFDR (dB/Hz$^{2/3}$)	105 typ., 100 min		Test condition: SRY-RX-L1-924, 10 km fibre, -13 dBm tones at 2150 and 2152 MHz
IMD3 (dBc)	-65 typ., -60 min.		Test condition: SRY-RX-L1-924, 10 km fibre, -13 dBm tones at 2150 and 2152 MHz
RF Output Signal Range, total power (dBm)	-30 to -10		o/p range available under all i/p conditions
Module input voltage (V DC)	12		Use with PSU SRY-12-916-xx1K
DC consumption (W)	4		Max
External PSU Redundancy	Dual redundant hot swap external units		Separate Unit
Local Monitoring	Full remote monitoring, PSU voltage, RF amp current, temperature, laser power, RF modulation power, laser optical power.		Contact ETL if remote monitoring and control is required.
MTBF	> 250,000 hours		

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

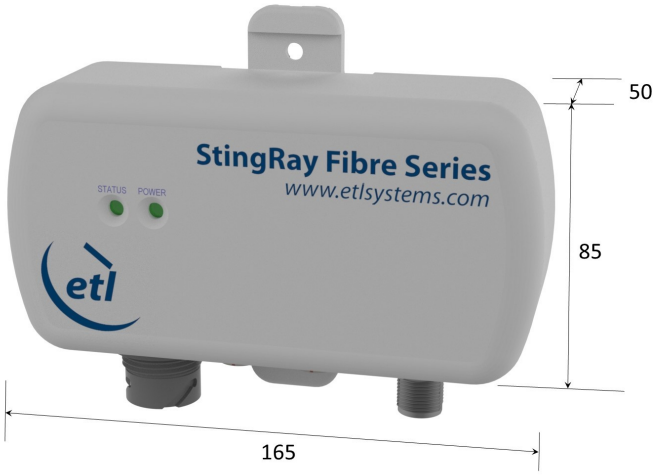
RF Components

Model Number:
SRY-RX-L1-924
L-Band RF Over Fibre ODU

Technical specifications and operating parameters

Optical Parameters		
Optical Wavelength (nm)	1100 to 1650	
Optical Power in (dBm)	0 to 4.5	
Optical Connectors	Senko IP-SC/APC	Single mode fibre
Control, Monitoring & Alarms		
Control Switch Position 1 2 3 4	AGC on/Gain fixed	
Indicator lights Power Status Green Status Red	Module powered Module OK Internal monitoring alarm	
Monitoring includes	Optical Input Power Status of amplifier stages Module temperature	Monitored in each module
AGC	Factory set	Once AGC level set, gain can be fixed
Environmental Conditions		
Operating Temperature (°C)	-20°C to +55°C	
Storage Temperature (°C)	-40°C to +85°C	
Location	Indoor or outdoor use to IP65	Mount out of direct sunlight
Humidity	TBA	Relative Humidity
Altitude	10,000 feet AMSL	Above Mean Sea Level
Physical Dimensions & Parameters		
Weight	TBD Kg	
Dimensions	85mm high x 50mm deep x 165mm wide	Excluding mounting flanges and connectors
Front Panel Colour	RAL9003 – White (Semi-Matte)	

Physical Dimensions (mm)



Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.
Note-1: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.
Note-2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage. For reliable long term operation do not exceed the parameters given in above.
Note-3: The spec table is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

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