



RF Components

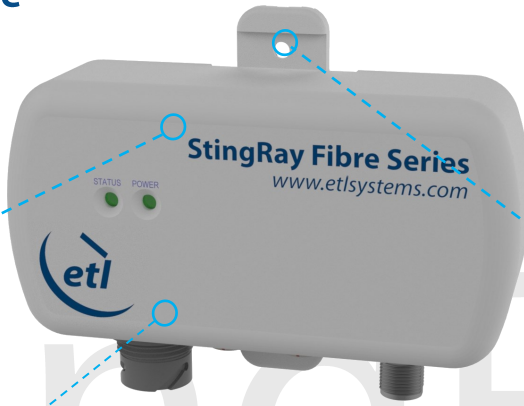
Model Number:
SRY-RX-L1-924

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

- 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

RF Parameter

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
Output AGC flatness	±2.0 dB over full band	
OIP3 (dBm)	Typical 17 dBm Worst Case 14 dBm	Tx Input -10 to -40 dBm Test condition: SRY-TX-L1-201, 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-TX-L1-201, 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-TX-L1-201, 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-TX-L1-201, 10 km fibre, -13 dBm tones at 2150 and 2152 MHz
IMD3 (dBc)	-65 typ., -60 min.	
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

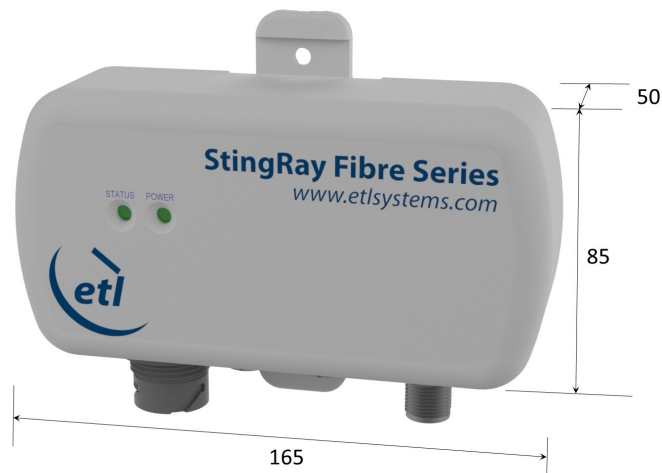




Technical specifications and operating parameters

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	1	
Switch	2	
Position	3	
	4	AGC on/Gain fixed
Indicator lights		
Power		Module powered
Status Green		Module OK
Status Red		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.

ETL SYSTEMS LIMITED
Coldwell Radio Station
Madley
Hereford
England HR2 9NE

TELEPHONE
+44 (0)1981 259020

EMAIL
info@etlsystems.com

FACSIMILE
+44 (0)1981 259021

WEB
www.etlsystems.com

