



RF Components

# GPS Over Fibre ODU

## 1310nm Transmit

Model Number:  
**SRY-TX-L1-911**

- Compact weatherproof, IP65 housing
- Antenna fail alarm pass through at the indoor receiver output
- Power provided for active antennas, 12V, 500 mA, short circuit protected
- LED indicators for module & antenna power and RF status
- Redundant hot swap external power supply
- For use with ETL's GPS receive unit models SRY-RX-L1-466 (standalone) & SRY-RX-L1-266 (19" rack mounted)

Available with RF connector options:

- 50 Ω N-Type
- 75 Ω F-type

**Compact & Weatherproof**  
Housed in IP65 rated weatherproof enclosure



**850-2450 MHz**  
Extended L-Band  
Operating Frequency

**Flexible Mounting**  
Band on to pole or bolt to wall

**Monitoring**  
Optical and RF levels reported at receiver

RF Parameters (TX Module)		
Model Number	SRY-TX-L1-911(transmit)	
Frequency Range	850-2450 MHz (Extended L-band)	
Return Loss	Typical	15 dB 50Ω N-Type
	Minimum	10 dB 50Ω N-Type
OIP3	-21 dBm ( <b>Typical Link:</b> 1.5 GHz, -50dBm in & out. Fixed gain)	
CNR (in any 4 MHz)	41 dB ( <b>Typical Link:</b> 1.5 GHz, -50dBm in & out. Fixed gain)	
SFDR	90 dB/Hz <sup>2/3</sup> ( <b>Typical Link:</b> 1.5 GHz, -50dBm in & out.)	
Max RF Input	16 dBm total power (Damage level, NOT operational)	
Input AGC	-10dBm Max (Inc. Noise) -60 dBm Min (Min I/P for max O/P)	
Noise Figure	17 dB ( <b>Typical Link:</b> 1.5 GHz, -50dBm in & out)	
Laser Type	DFB (Two stage optical isolator for improved performance )	
Optical Wavelength	1310 ± 10 nm	
Optical Power	3.8 ± 2.5 dBm	
Power Consumption	5W	
Antenna Powering	12V DC 500mA via RF input port   Always on short circuit protected	
MTBF	> 120,000 hours	
RF Connectors	N-Type 50 Ω and 75 Ω F-type - other connector types may be available upon request	
Optical Connectors	Senko IP-SC/APC	
Power Connectors	LEMO EEL.1K.304.CLA	

### Broadcast



### Marine Oil & Gas



### SNG & VSAT



### Satellite Teleport



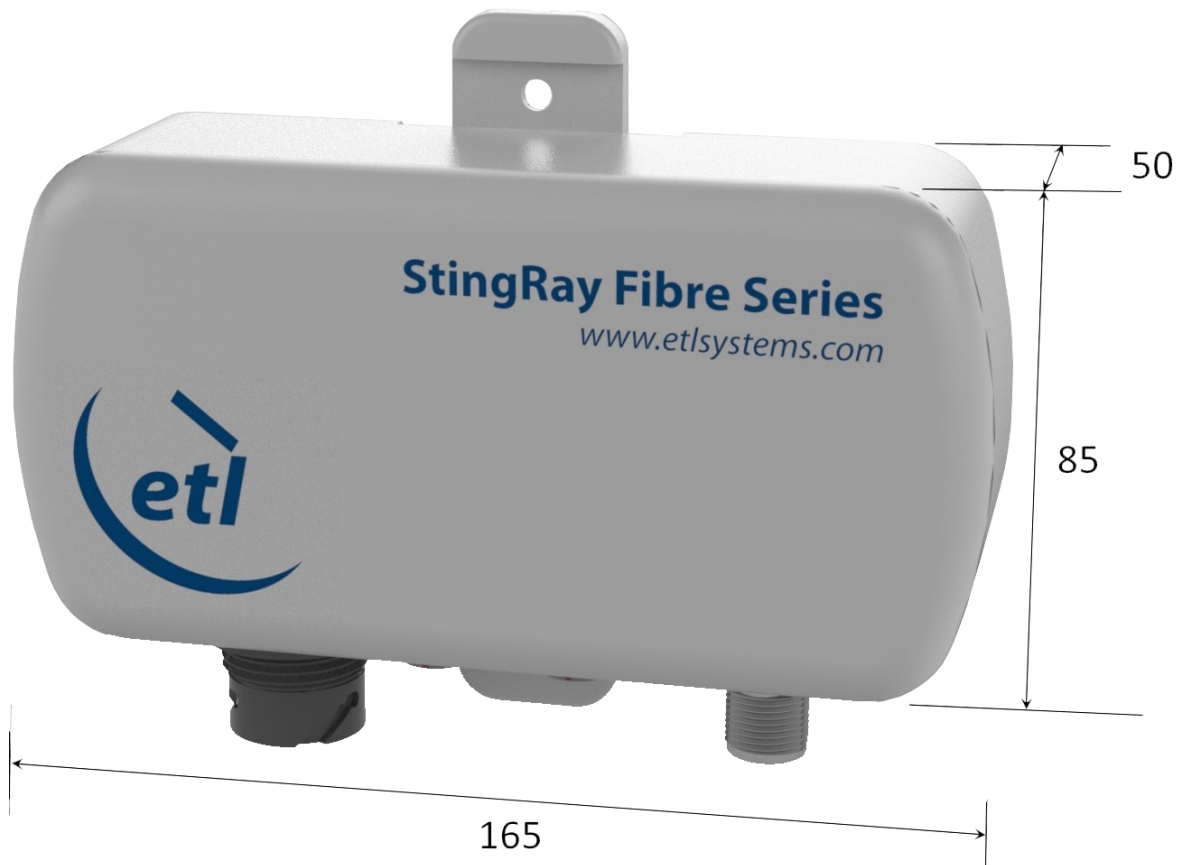


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Model Number:  
**SRY-TX-L1-911**  
GNSS Over Fibre ODU

Environmental Conditions	
Operating Temperature	-20 to +55°C
Storage Temperature	-40°C to +85°C
Location	Indoor or Outdoor use to IP65 (Out of direct sunlight)
Humidity	20 to 90% non-condensing (relative humidity)
Altitude	10,000 ft AMSL (above mean sea level)
Mass	1kg
Size	165 x 85 x 50 mm (Excluding mounting flanges and connectors)

### Physical Dimensions (mm)



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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