

StingRay GPS Over Fibre

Standalone Receive Module 850MHz to 2450MHz

Model Number: **SRY-RX-L1-466**

- Monitoring of both the Rx via 20 dB monitor port and the remote Tx via Status LED
- Powered by single or dual • redundant 12V supplies
- Intended for use with ETL's • GNSS transmit outdoors unit SRY-TX-L1-911

Available with connector options:

- 50 Ω SMA or BNC •
- 75 Ω BNC or F-Type
- FC/APC •
- SC/APC •

850-2450 MHz Operating frequency_ range.

Compact Housed in rugged compact enclosure

Flexible Mounting Through hole mounting option

Specification									
Capacity		One GNSS over Fibre Receive Unit							
Output port		50Ω BNC, SM	ЛА						
Monitor port		50Ω BNC, SMA		Output level -20 dB					
Frequency		850MHz to 2450MHz		Use Tx with tuned antenna to select required GNSS signal.					
Connector & impedances		50Ω SMA	50Ω BNC						
Link Gain (dB)		50±3	50±3	Max across band and link					
Gain flatness (dB)	Any 500MHz	±2.0	±2.0						
	Any 36MHz	±0.5	±0.5						
Input Return Loss (dB)	Тур.	n/a	n/a						
	Min	n/a	n/a						
Output Return Loss (dB)	Тур.	18	18						
	Min	12	12						
Input AGC level Max (dBm)		-10 At transmitter							
	Input AGC level Min (dBm)		-60 At transmitter						
Output AGC level Max (dBm)		-40 Set at receiver							
	Output AGC level Min (dBm)		-60 Set at receiver						
Noise Figure (dB)	Noise Figure (dB)			Typ. link 1.5GHz, -50dBm in & out					
CNR (in any 4 MHz) (dB)	CNR (in any 4 MHz) (dB)			Typ. link 1.5GHz, -50dBm in & out, gain fixed					
1dB GCP (dBm) 1dB Gain Compression point		-30 TBC		Typ. link 1.5GHz, -50dBm in & out, gain fixed					
OIP3 (dBm)		-19 TBC		Typ. link 1.5GHz, -50dBm in & out, gain fixed					
SFDR (dB/Hz ^{2/3})		105 TBC		Typ. link 1.5GHz, -50dBm in & out					
DC consumption		4W		Max. consumption at steady state					
Alarms		Antenna fail		25 mA current sink switched out					
Local Monitoring		Monitoring of module and signal from Tx Via LED. LED is GREEN if optical power is between –6.2dBm & +9dBm and RED if out of this range. Contact ETL if remote monitoring and control is required.							
MTBF		> 120,000 hou	Jrs	Module MTBF TBC					

9 WWW



Marine Oil & Gas



SNG & VSAT



Satellite Teleport



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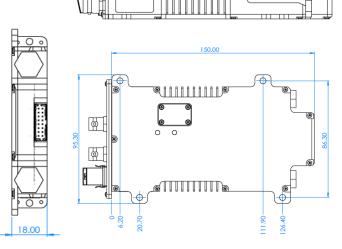
StingRay GPS Over Fibre Standalone Module

Technical specifications and operating parameters

Optical Parameters								
Optical Wavelength	1100 to 1650nm	Optimised for 1310nm and 1550 nm						
Optical power in	0 to 4.5dBm	Max 10 dBm						
Optical Connectors	SC/APC	Single mode fibre						
	FC/APC	Use angle polish connectors only						
Environmental conditions								
Operating Temperature (°C)	-20°C to +55°C							
Storage Temperature (°C)	-40°C to +85°C							
Location	Indoor use only	Outdoor use only in ETL ODU						
Humidity	20 to 90% non-condensing	Relative Humidity						
Altitude	10,000 ft AMSL operational	Above Mean Sea Level						
/ ###466	30,000 ft AMSL storage/transport							
Physical Dimensions & Parameters								
Weight	0.35 Kg							
Dimensions	43mm high x 205mm deep x 18mm wide	Mounting flanges provided						
Front Panel Colour	RAL9003 – White (Semi-Matte)							

Control, Monitoring & Alarms			Position marked on switch			Output	
Control DIP Switch	1 2	Reserved Output power bit 3	Remove cover to access	2	3	4	Power/dBm
Position	3 Output power bit 2	DIP switch. Output power settable -30 to	0	0	0	-61	
	4 5	4 Output power bit 1 5 AGC on/Gain fixed 6 Reserved	-10 dBm in 3 dBm steps.	0	0	1	-58
	6			0	1	0	-55
	Indicator lights		0	1	1	-52	
Power Status Green		Module powered Module OK		1	0	0	-49
Monitoring includes		Status of amplifier stages Module temperature	Monitored in each module	1	0	1	-46
				1	1	0	-43
AGC		Settable output power level	Once AGC level set, gain can be fixed	1	1	1	-40

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









