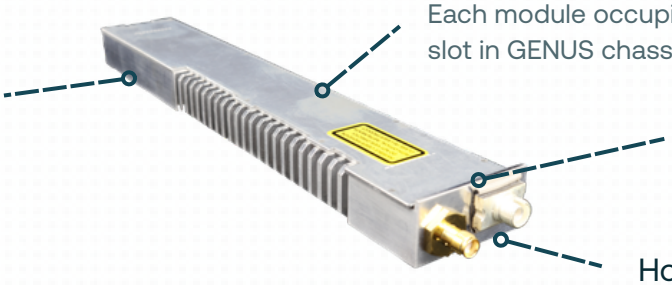
1PPS to 1MPPS, and IRIG-B (DCLS TTL) GENUS StingRay RF over Fibre module

SRY-G1S-RY-176-xxxx is a low phase noise optical receive module that converts a 1100nm to 1650nm optical input to a PPS & IRIG DCLS TTL output for timing applications for use in Genus 1U chassis, occupying 1 module slot. It is available with FC/APC or SC/APC optical connectors and RF port options of SMA or BNC in 50 ohm. This unit is designed to work with SRY-G1S-TY-175-xxxx and SRY-G2S-TY-323-xxxxxx for links up to 10km.

Module

Tx & Rx
module options for transmit and receive chains up to 10km



Compact
Each module occupies 1 slot in GENUS chassis

1PPS to 1MPPS and IRIG-B
signal type

Hot Swap & replaceable
RF module

Chassis

Resilience
Dual redundant hot swap power supplies; field replaceable CPU and HMI

Local Control & Monitoring
Front panel capacative HMI touchscreen

Secure Protocols
with SNMPv3 and HTTPS

Indoor & outdoor
1U indoor and compact ODU chassis options available





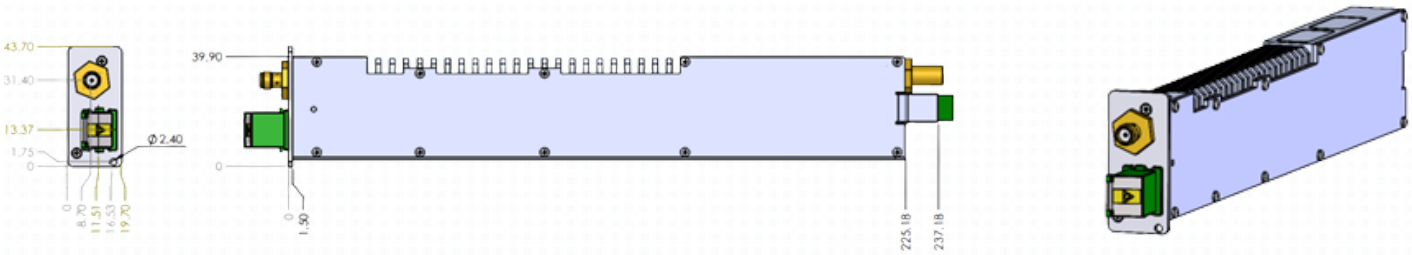
Configurable
Choose from a mixture of fibre modules with different operating frequencies, or house alongside other RF functions

10MHz Reference
Optional field-replaceable internal 10MHz reference and external reference inject port with auto detection

Remote Control & Monitoring
via RJ45 Ethernet port with SNMP and web browser interface

RF Parameters		
Model Numbers	SRY-G1S-RY-176-xxxx	
Input Signal	1PPS to 1MPPS and IRIG DCLS (50 Ohm TTL)	
Input port	50Ω SMA, BNC.	
Input level	5V peak nominal (TTL)	
Duty cycle	0 to 100%	
Rise/Fall Time	<20ns (Measured between 10% low and 90% high thresholds.)	
Jitter	<200ps RMS	
Optical Parameters		
Optical Wavelength	1100 to 1650nm (Optimised for 1310nm and 1550 nm)	
Optical power output	0 to +6 dBm (Max 10 dBm)	
Optical Connectors	SC/APC, FC/APC (Single mode fibre)	
Non-RF Parameters		
Module swap	Hot swap	
Power consumption	< 4W	
MTBF	>200,000 hours	
Environmental conditions		
Operating Temperature	-40 to +55°C	
Storage Temperature	-40 to +85°C	
Location	Indoor use (Outdoor use as part of ETL ODU only)	
Humidity	20 to 90% non-condensing (Relative Humidity)	
Altitude	10,000 feet AMSL	
Control, Monitoring and Alarms		
Control	Local and Remote	Local front panel control. See chasis spec. Remote control via Ethernet. 10/100Base T. TCP/IP, SNMP, web browser
Temperature monitors	Each module monitored (All are independently monitored and reported)	
Monitoring includes	Output TTL Frequency, Optical input level (in each module)	
Physical Dimensions		
Weight / Dimensions	0.2 Kg typical / 19 x 38 x 253 mm (see figure 1)	

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.



Part number configurator: SRY-G1S-RY-176-XXXX

Fiber Connector options:
SA - SC/APC
FA - FC/APC

S5 - SMA 50 ohm
B5 - BNC 50 ohm

ETL Systems Ltd, Coldwell Radio Station,
Madley, Hereford, England HR2 9NE

info@etlsystems.com

+44 (0)1981 259020