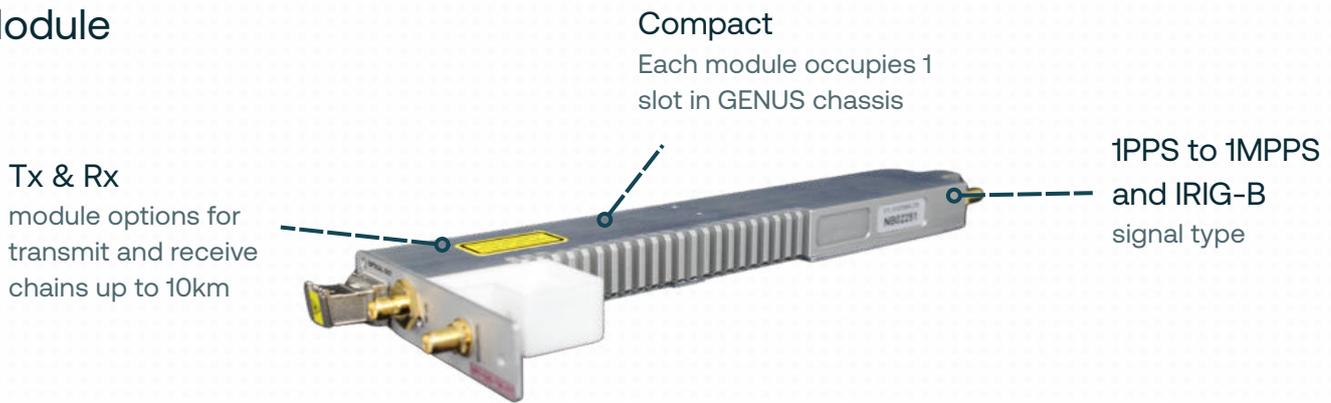


# 1PPS to 1MPPS, and IRIG-B (DCLS TTL) GENUS StingRay RF over Fibre module

SRY-G2S-TY-323 & SRY-G2S-RY-324 are optical transmitter and receiver modules for 1PPS up to 1MPPS, and IRIG-B DCLS TTL over Fibre, built in a compact EMC sealed housing which converts 1PPS up to 1MPPS signals to 1310nm for transmission over single mode fibre. It uses optically isolated DFB laser and is suited up to 10km. Can also be used with ETL model D0216S1UIA-22512 Dual input 16-way Time & Frequency Distribution unit.

## Module

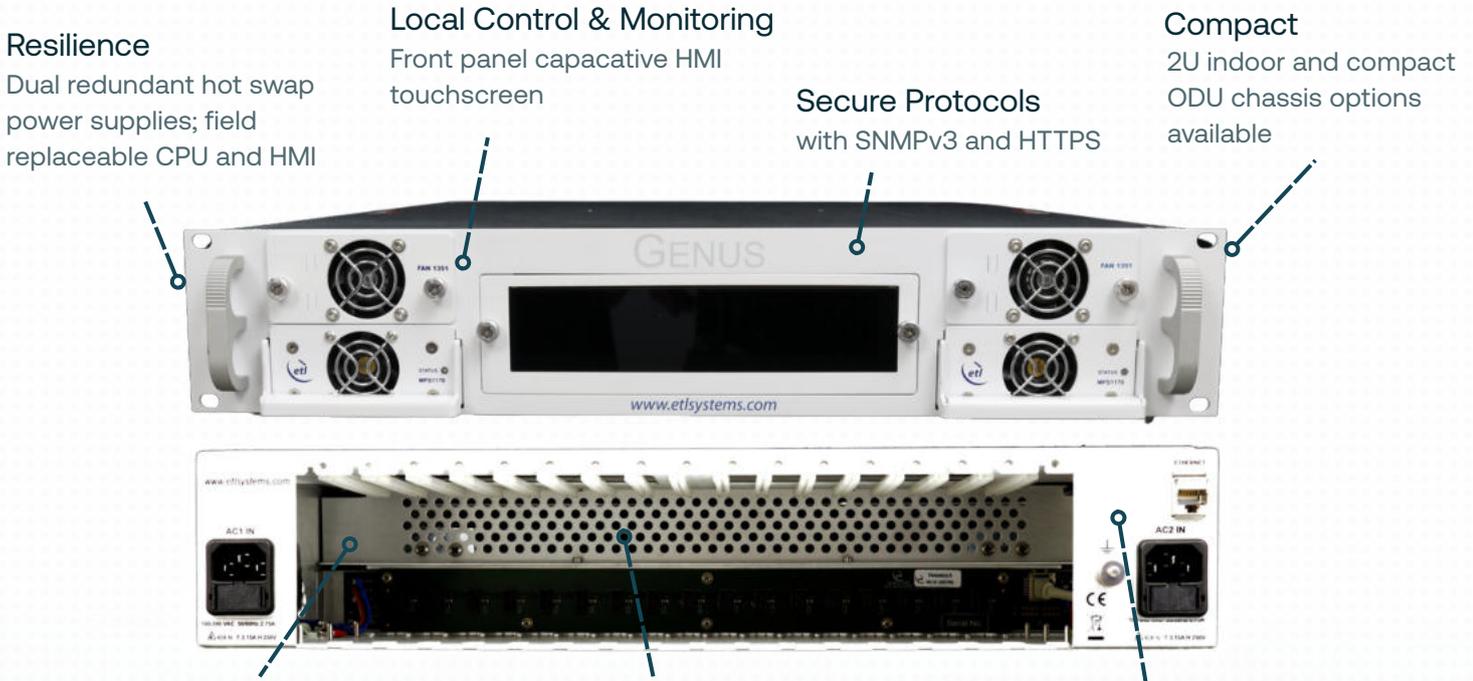


**Tx & Rx**  
module options for  
transmit and receive  
chains up to 10km

**Compact**  
Each module occupies 1  
slot in GENUS chassis

**1PPS to 1MPPS  
and IRIG-B**  
signal type

## Chassis



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

**Local Control & Monitoring**  
Front panel capacitive HMI  
touchscreen

**Secure Protocols**  
with SNMPv3 and HTTPS

**Compact**  
2U 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-G2S-TY-323-xxxxxx	SRY-G2S-RY-324-xxxxxx
Signal	Input: 1PPS to 1MPPS and IRIG-B DCLS (50 ohm TTL)	Output: 1PPS to 1MPPS and IRIG-B DCLS (50 ohm TTL)
Input / Output ports	50Ω SMA, BNC	
Input / Output Monitor ports	1kΩ SMA, BNC	
Input / Output Level	Input: Up to 5V peak nominal TTL	Output: 5V TTL peak nominal (when terminated with 50Ω)
Duty Cycle	0 to 100%	
Rise/Fall Time	<20ns Measured between 10% low and 90% high thresholds.	
Jitter	<200ps RMS	
Laser Type	DFB. Optical isolator for improved performance	N/A
Optical Wavelength	1310 ± 10 nm	1100 to 1650nm. Optimised for 1310nm and 1550 nm
Optical Power	Output: +5 dBm typical	Input: 0 to +6 dBm (Max 10 dBm)
Power Consumption	< 5W	< 4W
MTBF	>130,000 hours.	
RF Connectors	SMA 50 Ω (S5) / or BNC 50 Ω (B5)	
Optical Connectors	FC/APC (FA) or SC/APC (SA) or E2000 (EA) Single mode fibre, Use angle polish connectors only	
Operating Temperature	-20 to +55 °C	
Storage Temperature	-40 to +85 °C	
Location	Indoor use	
Humidity	20 to 90% non-condensing. Relative Humidity	
Altitude	10,000 feet AMSL (Above Mean Sea Level)	
Control & Monitoring	Local front panel control and remote control via ethernet. 10/100BaseT. TCP/IP, SNMP, Web browser.	
Temperature Monitors	Each module TTL frequency monitored, all are independently monitored and reported.	
Module Monitoring	Laser optical output & input power, Status of amplifier stages in each module	
Dimensions	87 x 19 x 225 mm	
Slots Used	1	1
Weight	0.35 kg	

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.