3-30MHz GENUS StingRay RF over Fibre module

With ultra low phase noise and 10km nominal range.

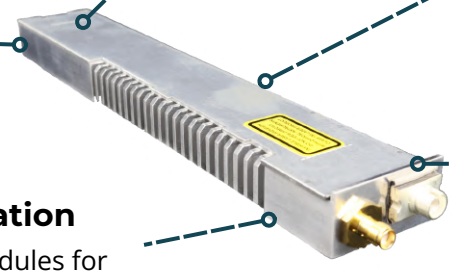
StingRay 3-30MHz Transmit and Receive RF Over Fibre Genus Modules to fit Genus 1U chassis. With ultra low phase noise and 10km nominal range.

Module

Compact
Each module occupies 1 slot in GENUS chassis

3 -30 MHz
Operating frequency range

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



Hot Swap & replaceable
RF module

High Isolation
between modules for signal quality

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

Compact
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-TY-181-xxxx	SRY-G1S-RY-182-xxxx
Frequency Range	3-30 MHz	
Input ports	50Ω SMA, BNC. 75Ω not available.	
Connectors & impedances	50Ω SMA	50Ω BNC
Input return loss	Typ. 20dB. Min 15 dB	N/A
Output return loss	N/A	Typ. 16dB. Min 12 dB
Flatness	± 1.5 dB	
Input AGC level Max	+12 dBm. Levels total power including noise	
Input AGC level Min	0 dBm Min I/P for max O/P	
Output AGC level Max	+12 dBm. Levels total power including noise	
Output AGC level Min	0. dBm	
Max Input RF Power	+16 dBm. Damage level	
Frequency Offset (Hz)	Phase Noise Typ (dBc/Hz)	Phase Noise Max (dBc/Hz)
0.1	-120	-110
1	-132	-120
10	-144	-130
100	-149	-140
1000	-150	-145
10000	-151	-147
100000	-152	-147
1000000	-152	-147
Laser Type	DFB	-
Optical Wavelength	1310 ± 10 nm	1100 to 1650nm. Optimized for 1310nm and 1550 nm
Optical Power output/input	**Output:** 5.5 ±2 dBm.	0 to 7dBm. Max 10 dBm
Optical Connectors	FC/APC , SC/APC Single mode fibre.	
Gain Setting Modes	Manual Gain Control (MGC) Automatic Gain Control (AGC) Fixed Gain (FG)	
Module Dimensions	19mm x 38mm x 253mm. 0.2kg. Genus 1U series mountable.	
Module Swap	Hot swap	
Spec Version	0.2	

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.