ETL Systems
New technologies
in RF distribution

# StingRay Ethernet Over Fibre Genus Module Optical Ethernet

double width module, 2x RJ-45 + 2xSFP Slots

Typical applications:
- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

SRY-G1S-DA-165 is an electrical data to optical SFP module bi-directional link. The module is double width occupying two 1U chassis slots. There are two Ethernet Ports RJ-45 10/100/1000BASE-T and two Gigabit Ethernet SFP module slots; two fibres are required for each standard SFP slot, since the operation is bi-directional. Alternatively BiDi SFP module could be used for single fibre operation. Ports are connected via an unmanaged Ethernet switch. The SFP modules are available with LC optical connectors, flat polished. It is intended for use in ETL's Genus 1U Series chassis and ODUs.

Fibre Module
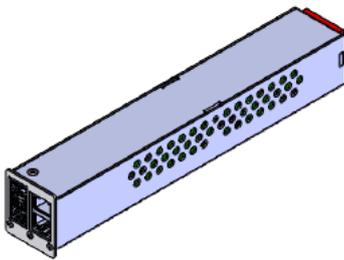
Fibre Module
Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 2 slot in the chassis.

Hot Swap & replaceable
ethernet over fibre module

2 x SFP module slots

2 x RJ45 ports
10/100/1000 Base-T

Chassis Options

Local control & monitoring via HMI high resolution touchscreen

Resilience from dual redundant hot-swap power supplies & field replaceable CPU & HMI

Compact indoor & outdoor chassis options, which can be part populated

Secure protocols with SNMPv3 and HTTPS

Flexible Module Configurations choose from a mixture of fibre modules with different operating frequencies.

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

Field replaceable Internal 10MHz reference source and external reference inject port with auto detection (optional)

Indoor Chassis

Outdoor Unit
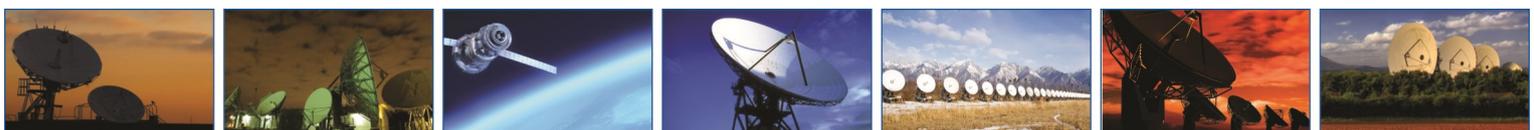
StingRay Ethernet over Fibre Module - RF Parameters		
Model Numbers	SRY-G1S-DA-165	
Copper Ethernet Ports	2x10/100/1000BASE-T RJ-45 (Up to Gigabit Ethernet)	
Optical Ethernet Ports	2x SFP module slot	
Optical Connector	LC duplex, Single mode fibre (Other connector options are available upon request. Not angle polished)	
Optical Wavelength	Customer Selectable	
Power Consumption (W)	TBD (max. consumption at steady state)	
MTBF	TBD	
Control	Local and Remote	Local front panel control. See chassis spec. Remote control via chassis Ethernet. 10/100Base T. TCP/IP, SNMP, web browser
Temperature Monitors	Each module monitored	All are independently monitored and reported
Operating Temperature	-40 °C to +55 °C	
Storage Temperature	-40 °C to 85 °C	
Location	Indoor	Outdoor mounting as part of ETL ODU only
Humidity	20% to 90% non-condensing relative humidity	
Altitude	10,000 feet AMSL	
Weight	0.2 kg	
Dimensions	39 x 40 x 233 mm	

Typical Application
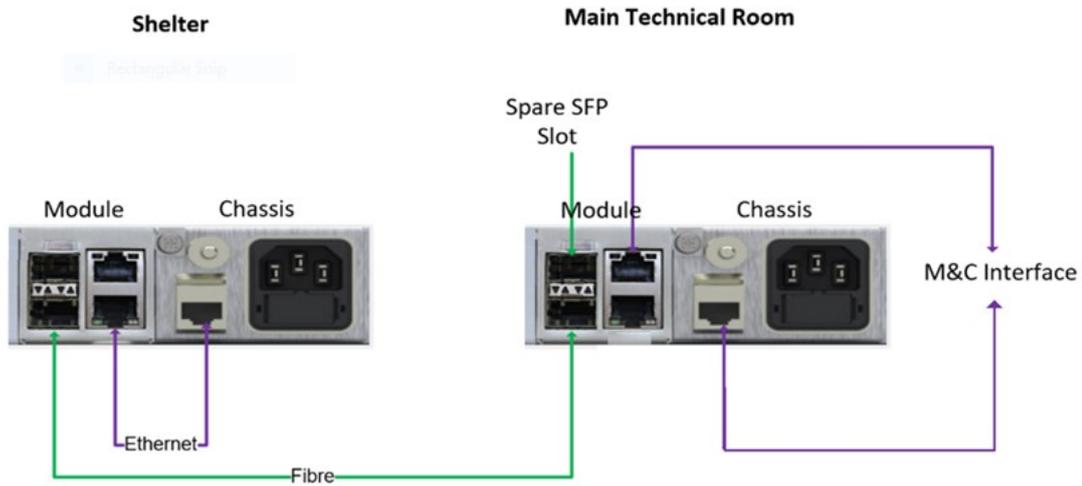
Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.