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Model Number:
SRY-G1S-DA-165

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-G-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.

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

Local control & monitoring via HMI high

Compact housed in a 1U high chassis with capacity for up to 17 modules

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

Hot Swap & replaceable fibre modules

Ethernet over Fibre module SRY-G-DA-165

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

Chassis - Specification	
Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)
Capacity	Total of 17 module slots. Note that 1 slot may be used for fan (if required) and 1 slot may be used for 10 MHz EXT inject module (if required). Note actual modules may require >1 slot. Refer to required module spec table.
Temperature	Operating: 0˚C to +45˚C / Storage: -20˚C to +75˚C
Location / Humidity / Altitude	Indoor use only / 20 to 90% non-condensing / 10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage) *Above Mean Sea Level*
Control & Monitoring	Local: HMI touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface HMI and CPU field replaceable. Each module independently monitored and reported.
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock
AC Input / Consumption	85-264Vac 50/60Hz / 150W
PSU Redundancy	Dual redundant and alarmed Diode OR. Hot swappable
Input & Output ports	Dependant upon module fitted

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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	TBC	
Dimensions	TBC	

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.