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Typical applications: • Teleports & Earth Stations

Government & Defence applicationsTelemetry, Tracking & Command

Remote control &

High Resilience applications

Satellite Operations

StingRay Ethernet Over Fibre

Genus Module Optical Ethernet double width module, 2x RJ-45 + 2xSFP Slots

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.





Contract Con

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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Model Number: SRY-G1S-DA-165

| 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 | | |

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.

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