# S-band Latching Redundancy Switch 

SWF-G2S-S6-118-xxxx is a hot swap, S-band latching redundancy (SPDT) switch operating over 500 to 3150 MHz and -45 to -5 dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level differs by more than 4 to 20 dB , customer settable. In order to minimise switching operations the switch will maintain the new path if the first path is restored. The first path can be selected manually via the web interface if required. It can be used to operate with optical receivers from the StingRay Genus 2 U or outdoor chassis.


Local control \&
monitoring via HMI high resolution touchscreen

## Typical applications:

- Ku-band and Ka-band ready for HTS applications
- Distribution of comms traffic across site with minimal loss
- General satcoms- teleports, video headends, TVRO
- Compact solution for small quantity links such as tactical HQ
- A resilient solution for satellite teleports with transition distances up to 10 km

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

## Hot Swap \&

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

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

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

Image for indication purposes only, actual modules and configuration may differ

| Chassis - Specification |  |
| :---: | :---: |
| Dimensions / Weight / Colour | 2 U high $\times 550 \mathrm{~mm}$ deep $\times 19{ }^{\prime \prime}$ 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: $0^{\circ} \mathrm{C}$ to $+45^{\circ} \mathrm{C} /$ Storage: $-20^{\circ} \mathrm{C}$ to $+75^{\circ} \mathrm{C}$ |
| 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 | $85-264 \mathrm{Vac} 50 / 60 \mathrm{~Hz}$ / 150W |
| PSU Redundancy | Dual redundant and alarmed Diode OR. Hot swappable |
| Input \& Output ports | Dependant upon module fitted |



ETL Systems
Model Number: SWF-G2S-S6-118

## New technologies <br> in RF distribution

Technical Specifications and Operating Parameters


| Non RF Parameters |  |
| :---: | :---: |
| Module Swap | Hot Swap |
| Control, Monitoring \& Alarms |  |
| Temperature | Each module monitored |
| Monitoring Includes | Status of amplifier stage, RF input power, RF output power |
| Control | Local and Remote via parent chassis |
| Environmental Conditions |  |
| Operating Temperature | $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |
| Storage Temperature | $-20^{\circ} \mathrm{C}$ to $+75^{\circ} \mathrm{C}$ |
| Location | Indoor use |
| Humidity | 20 to 90\% non-condensing |
| Altitude | 10,000ft/3000m AMSL |
| Mass | 0.4 kg |
| Size | 87 mm Width $\times 19 \mathrm{~mm}$ Height $\times 225 \mathrm{~mm}$ Depth |
| Spec Issue | 1.0 |

[^0]Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



[^0]:    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

