

Swift Series DC-15 GHz 2+1 Redundancy Switch Module with standby for Frequency Converters

The swift switch 2+1 redundancy module is for use in the 1U Genus chassis, specifically for Falcon frequency converter configurations. In 2+1 redundancy configuration, the chassis has capacity for up to three hot-swap frequency converter modules and 1 redundancy switch module.

Chassis

Hot swap & replaceable RF Frequency Converter & redundancy switch modules

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

Flexible module configurations including interchangeable frequency range options. User selectable via HMI or web browser

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

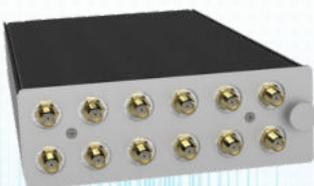
Local control & monitoring via HMI high resolution touchscreen

Redundancy configurations 2+1 redundant configuration

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

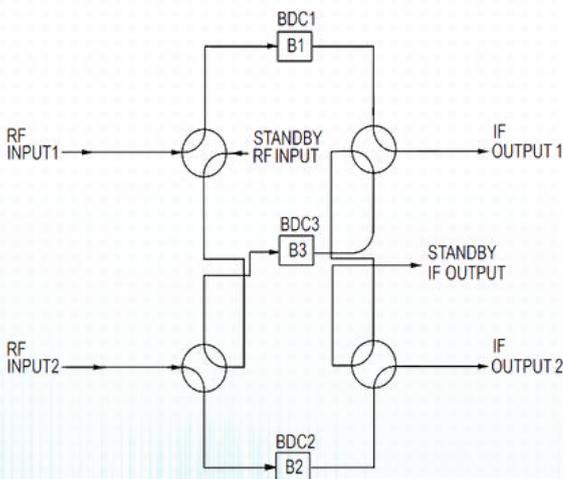
Compact housed in a 1U high chassis with capacity for 1 redundancy switch and 3 converter modules

Swift Redundancy Switch Module
Compact form factor allowing multiple modules to be housed in 1U chassis. Each module uses 6 slots in the chassis.



RF Parameters	
Model Numbers	SWF-G1S-KX-107A
Size	6 slots wide.
Redundancy	2+1
Frequency Range	Input / Output: DC to 15 GHz Output / Input: DC to 6 GHz
Insertion Loss (15 GHz Path) (Excludes all linking cables external from the module)	≤ 2.5 GHz: ≤ 1.0 dB ≤ 12.75 GHz: ≤ 1.6 dB ≤ 15.0 GHz: ≤ 1.8 dB
Insertion Loss (6 GHz Path) (Excludes all linking cables external from the module)	≤ 2.5 GHz: ≤ 1.0 dB ≤ 6 GHz: ≤ 1.6 dB
Insertion Loss Variation (Max) (Between input paths or output paths)	± 0.50 dB
Gain Flatness (Input/Output Path)	Any 1GHz Bandwidth: ± 1.0 dB
Return Loss (Input/Output Path)	≤ 2.5 GHz: -18 dB >2.5 GHz; ≤10.7 GHz: -14 dB ≤ 15 GHz: - 12 dB
Isolation (path to path)	55 dB min
Input Power Range	≤ +35 dBm
Spurs In-band	Non-carrier related: < -85 dBm. In 1 kHz Bandwidth
Environmental	
Temperature	Operating: 0 to 45°C Storage: -20°C to +75°C
Location	Indoor use only, within parent GENUS chassis
Humidity	20 to 90% non-condensing
Altitude	10,000ft / 3000m AMSL

2+1 Redundancy Configuration



Specs are for standalone modules. There may be slight variation when used for frequency converter redundancy configurations.

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.