Swift Series DC-6 GHz 1+1 Redundancy Switch Module with standby for Frequency Converters

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

Chassis

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

Hot swap & replaceable RF Frequency Converter & redundancy switch modules

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

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

Local control & monitoring via HMI high resolution touchscreen

Redundancy configurations 1+1 redundant configuration

Compact housed in a 1U high chassis with capacity for 1 redundancy switch and 2 converter modules
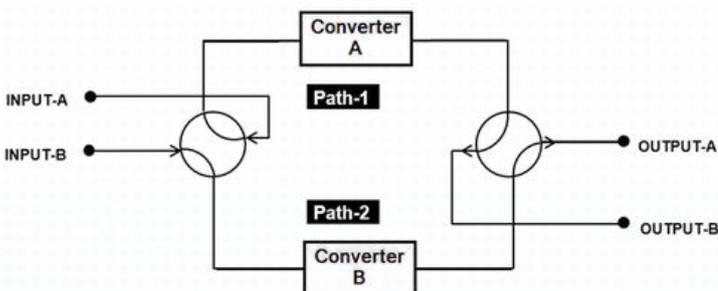
Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface

Swift Redundancy Switch Module Compact form factor allowing multiple modules to be housed in 1U chassis. Each module uses 4 slots in the chassis.

RF Parameters	
Model Numbers	SWF-G1S-CX-117
Size	4 slots wide.
Redundancy	1+1
Frequency Range	Input / Output: DC to 6 GHz Output / Input: DC to 6 GHz
Insertion Loss (Input Path) (Excluding all linking cables external from the module)	≤ 4 GHz: ≤ 0.5 dB > 4 GHz; ≤ 6 GHz: ≤ 1.0 dB
Insertion Loss (Output Path) (Excluding all linking cables external from the module)	≤ 4 GHz: ≤ 0.5 dB > 4 GHz; ≤ 6 GHz: ≤ 1.0 dB
Insertion Loss Variation (Max) (Between input paths or output paths)	± 0.5 dB
Gain Flatness (Input/Output Path)	≤ 2.15 GHz: ± 0.5 dB ≤ 6 GHz: ± 1.0 dB
Return Loss (Input/Output Path)	≤ 2.5 GHz: 16 dB > 2.5 GHz; ≤ 6 GHz: 14 dB
Isolation (path to path)	70 dB min
Input Power Range	≤ +35 dBm
Spurs In-band	Non-carrier related: < -85 dBm. In 1 kHz Bandwidth
Environmental	
Temperature	Operating: 0 to 45ºC 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

1+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.