



Swift Series DC-6 GHz

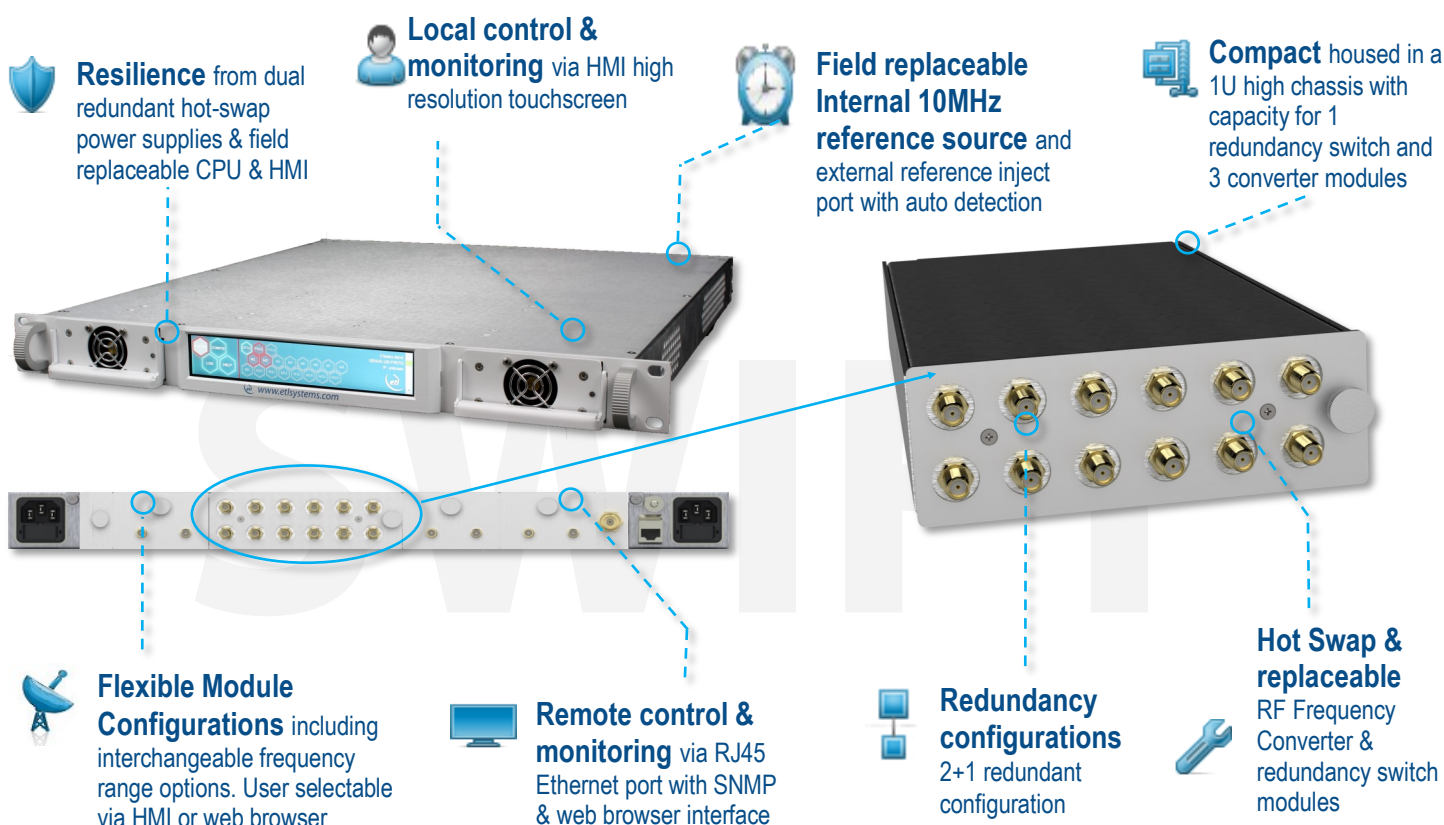
2+1 Redundancy Switch Module

with standby for Frequency Converters

Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

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.



GENUS Chassis - Specification

Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)
Capacity	17 module slots. 1 slot used for fan (if required) and 1 slot used for 10 MHz EXT inject module.
Temperature	Operating: 0 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
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
Modules per chassis	Dependant upon configuration





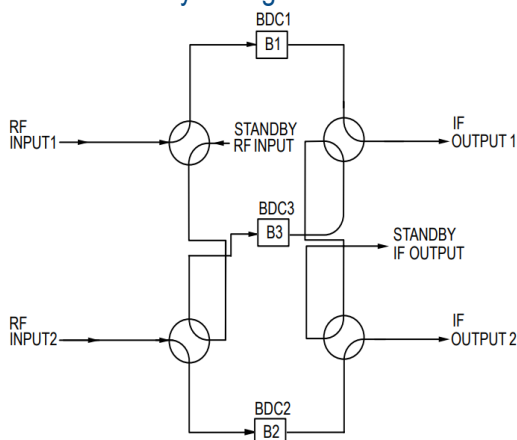
Swift Redundancy Switch Module

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

Swift Redundancy Switch Module - RF Parameters

Model Numbers		SWF-G1S-CX-110
Size		6 slots wide
Configurations		1 redundancy switch & 3 converter modules.
Redundancy		2+1
Frequency Range	Input / Output	DC to 6 GHz
	Output / Input	DC to 6 GHz
Insertion Loss (Input Path)	≤ 2.5 GHz	≤ 2.5 dB
	> 2.5 GHz; ≤ 6 GHz	≤ 3.0 dB
Insertion Loss (Output Path)	≤ 2.5 GHz	≤ 2.5 dB
	≤ 6 GHz	≤ 3.0 dB
Insertion Loss Variation (Max)		± 0.55 dB
Gain Flatness (Input/Output Path)	≤ 2.15 GHz	± 1.0 dB
	≤ 6 GHz	± 1.5 dB
Return Loss (Input/Output Path)	≤ 2.5 GHz	16 dB
	> 2.5 GHz; ≤ 6 GHz	14 dB
Isolation (path to path)		55 dB min
Input Power Range		$\leq +35$ dBm
Spurs In-band	Non-carrier related	< -85 dBm (in 1kHz bandwidth)

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.