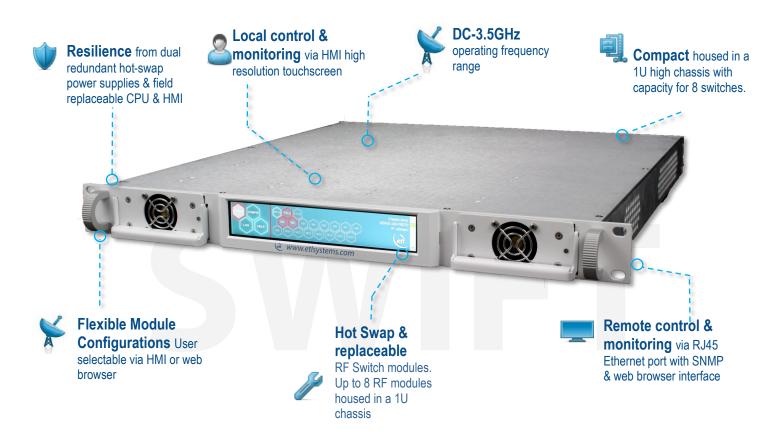


## Swift Series DC—3.5 GHz SPDT Switch Module

The swift switch SPDT module is for use in the 1U Genus chassis. The chassis has capacity for up to eight hot-swap switch modules. RF coax reflective switch, DC to 3.5GHz, no RF detection or monitoring.

## **Typical applications:**

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



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 (if required).	
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 SPDT Switch Module**Compact form factor allowing multiple modules to be housed in 1U chassis. Each module uses 2 slots in the chassis.

## **Preliminary Specifications**

Swift Redundancy Switch Module - RF Parameters		
Model Numbers	SWF-G1S-SX-201	
Capacity	1x2 (SPDT)	
Impedance	50 Ohm (Reflective port behaviour when not switched)	
Switchover Time (Maximum)	10ms	
Switch Life (Minimum per position)	10,000,000 Cycles	
Connector Type	SMA	
Frequency Band	DC - 3.5 GHz	
Insertion Loss (Maximum)	0.2dB	
Return Loss (Minimum)	20dB	
Isolation (Minimum)	80dB	
Maximum Input Power (Maximum average through switched path)	250W	
Chassis Slots Used	2 slots	
Environmental Conditions		
Operating Temperatures	0 to 50°C	
Storage Temperatures	-20°C to +75°C	
Location	Indoor Use Only	
Humidity	20 to 90% non-condensing	
Altitude	10,000ft/3000m AMSL (Above Mean Sea Level)	
Physical Dimensions & Parameters		
Dimensions	250mm x 41mm x 41mm	
Module Finish	Machined Aluminium	
Spec Version	0.1	

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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