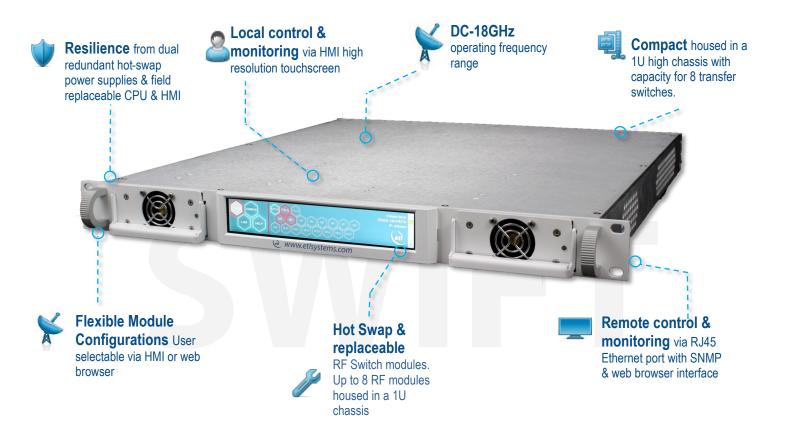


## Swift Series DC—18 GHz SPDT Switch Module

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 18GHz, 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				



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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 Sw	itch Module - RF Paramet	ers			
Model Numbers	SWF-G1S-K1-203					
Capacity	1x2 (SPDT)					
Impedance	50 Ohm (Reflective port behaviour when not switched)					
Switchover Time (Maximum)	simum) 15ms					
Switch Life (Minimum per position)	10,000,000 Cycles					
Switch Action	Break before make					
Connector Type	SMA					
Frequency Bands	DC - 3 GHz	3 - 8 GHz	8 - 12.4 GHz	12.4 - 18 GHz		
Insertion Loss (Maximum)	0.2dB	0.3dB	0.4dB	0.5dB		
Return Loss (Minimum)	20dB	17dB	15dB	13dB		
Isolation (Minimum)	80dB	70dB	60dB	60dB		
Maximum Input Power (Maximum average through switched path)	75W	50W	40W	30W		
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 Dimer	nsions & Parameters				
Dimensions	250mm x 42mm x 42mm					
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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