

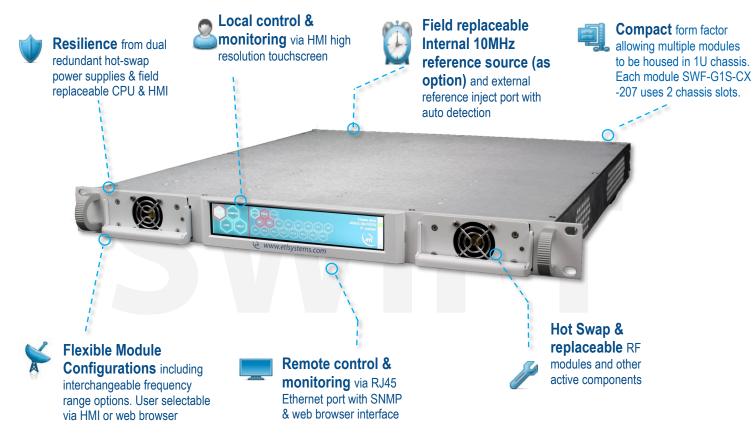
Swift Series DC- 6000 MHz SP4T Switch Module

Bidirectional 4x1 or 1x4 switch

Typical applications:

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

The swift switch SP4T RF coax switch covers DC to 6000MHz, occupying 2 slots for use in a 1U chassis, ODU chassis or 4&8 slot bench chassis. The switch is bidirectional so can be used as either a 4x1 or 1x4 switch. The switch has Reflective (open) port behaviour when not switched. Other modules types are also available, these can be mixed and housed in the Genus range of chassis.



Chassis - Specification		
Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)	
Capacity	Total of 17 module slots. Note that 1 slot may be used for fan (if required) and 1 slot may be used for 10 MHz EXT inject module (if required). Note actual modules may require >1 slot. Refer to required module spec table.	
Temperature	Operating: 0°C 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 HMI and CPU field replaceable. Each module independently monitored and reported.	
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	

















Preliminary Specifications

Swift Redundancy Switch Module - RF Parameters			
Model Number	SWF-G1S-CX-207		
Capacity	1x4 (SP4T) or 4x1		
Impedance	50 ohms (Reflective (open) port behaviour when not switched)		
Switchover time	10ms (Max)		
Switch Life	10 000 000 Cycles (Min)		
Connector Type	SMA		
Frequency bands	DC-3 GHz	3-6 GHz	
Insertion loss	0.2dB (Max)	0.3dB (Max)	
Return loss	20dB (Min)	17 dB (Min)	
Isolation (path to path)	80dB (Min)	70 dB (Min)	
Maximum RF input power	250W (Maximum average through switched path. Assuming worst case load VSWR of 2.)	170W (Maximum average through switched path. Assuming worst case load VSWR of 2.)	
Environmental conditions			
Operating temperature	0 to 50°C		
Storage temperature	- 20°C to +75°C		
Location	Indoor use only		
Humidity	20 to 90% non-condensing		
Altitude	10,000ft/3000m AMSL		
Physical dimensions & parameters			
Dimensions	250mm x 42mm x 42mm		
Weight	TBC		
Module finish	Unpainted 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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