



8x1 S-Band Latching Switch

(0-18 GHz) Self Terminating with Local & Remote Control (via RS232/485 & RJ45 port) with DC pass

Typical applications:

- Signal Carrier Monitoring of satellite feeds.
- RF switching for yachts, ships & other marine applications.
- Redundancy switching for main & standby satellite dishes.
- Redundancy switching for main & standby IRD/modems/ converters
- Remote controlled unmanned satcom sites.

DC to 18 GHz operating frequency range.

Local control & monitoring via push buttons, LED display & status LED's

Compact 8x1 switch housed in a 2U high chassis

Remote control & monitoring via RJ45 Ethernet and RS232/485 serial ports

Dry contact alarm port & serial communications for PSU status

Resilience from dual redundant power supplies





Technical specifications and operating parameters

RF Parameters						
Capacity	8:1 Switch		Latching, Self-Terminating			
Input & Output Ports	50Ω SMA		All ports DC Pass			
Switch Type	Absorptive Type					
Switchover Time	< 100 ms					
Switch Life	3 million cycles per position					
Frequency	DC to 3 GHz	3 to 8 GHz	8 to 12.4 GHz	12.4 to 18 GHz		
Insertion Loss	0.3 dB	0.4 dB	0.5 dB	0.6 dB	Maximum	
Flatness	< 1 dB peak to peak					
Return Loss	Typ.	24 dB	20 dB	18 dB	15 dB	All RF ports
	Min	20 dB	17 dB	15 dB	13 dB	
Isolation	80 dB	70 dB	60 dB	60 dB	Min. between any two multi-ports	
Group Delay	1 ns peak to peak		Full bandwidth Maximum			
DC Pass	Between Common Port and any Multi-Port					

Environmental	
Operating Temperature	0 to 45°C
Location	Indoor use only
Storage Temperature	-20°C to +75°C
Humidity	20 to 90% non-condensing
Altitude	10,000 feet AMSL (above mean sea level)

Power		
PSU Power	85-264Vac 50/60Hz	Fused 2A
AC Consumption	15W	Max. consumption at steady state
Input RF Power	30 dBm per input 35 dBm total per switch	Limited by internal terminators
PSU Redundancy	Dual Redundant and Alarmed	Diode OR. Not hot swap.

System Control		
Remote Control & Monitoring	Serial (RS232/485) and Ethernet (RJ45)	Rear Panel
Alarms	Dry Contact (D-Type) & Ethernet (RJ45)	PSU Status

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	7 kg
Colour	RAL9003 – White (Semi-Matte)

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.

