



# 8:1 (DC-22GHz) SHF Switch with local & remote control & monitoring

**Typical applications:**

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



**DC-22GHz** operating frequency range.



**Local control & monitoring** via front panel push buttons & display



**Compact** housed in a 2U high chassis



**Remote control & monitoring** via serial & RJ45 Ethernet port with SNMP & web browser interface.



**Dry contact alarm port & serial communications** for power supply status



**Resilience** from dual redundant power supplies





**Technical specifications and operating parameters**

RF Parameters		
Capacity	8:1 Switch	
Switch Type	8:1 Coaxial relay switch array self-terminating	2,000,000 cycle minimum life: mounted on rear panel
Insertion Loss	< 0.9 dB	Generally Monotonic, Increasing loss with frequency
Frequency Range	DC to 22 GHz	
Gain Flatness	± 1.0 dB	Max deviation from monotonic
RF Ports	50Ω, SMA Connectors	Female, not DC Blocked
Isolation	≥ 55 dB	
Return Loss	Typical	15 dB
	Minimum	10.88 dB

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

Physical	
Dimensions	2U shelf 19", 350mm deep. 19" rack mountable
Weight	7 Kg
Colour	White 00-E-55 semi-gloss

Power		
Input RF power	1W per input 3W total per switch	Limited by internal terminators
AC Power	265 Vac	
Power Supply	Dual redundant	Diode Shared
AC Consumption	20W	
Power Requirement	90V-264V 50/60Hz	Universal mains PSU, Dual mains input
Hot-swap PSU	No	

System Control	
Local Control	Push buttons & LED display
Remote Control	Via RS232 or RS 422/485 serial port and RJ45 Ethernet port with SNMP & web browser interface.
Alarms	Dry contact alarm (D-Type) for PSU status.

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.

