



2x2 SHF Redundancy Switch

with local and remote control via Ethernet

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
- Redundancy switching for up-converters & downconverters
- Remote controlled unmanned satcom sites



Local control & monitoring via front panel push buttons & display



DC-18GHz operating frequency range



Compact housed in a 1U high chassis



2x2 Switch for redundancy switching



Remote control & monitoring via 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		2x2 Switch			
Input & output ports		50Ω SMA	All Ports DC Pass		
Frequency Range		DC to 18 GHz			
Frequency		0 - 3 GHz	3 - 8 GHz	8 -12.4 GHz	12.4 -18 GHz
Insertion Loss	Maximum	0.2 dB	0.3 dB	0.4 dB	0.5 dB
	Gain Flatness	± 1.0 dB	± 1.0 dB	± 1.0 dB	± 1.0 dB
Gain Flatness	Any 80MHz	± 0.2 dB	± 0.2 dB	± 0.2 dB	± 0.2 dB
	Input Return Loss	Typical	20 dB	18 dB	16 dB
Minimum		18 dB	17.7 dB	14 dB	12 dB
Output Return Loss	Typical	20 dB	18 dB	16 dB	16 dB
	Minimum	18 dB	17.7 dB	14 dB	12 dB
Isolation (Max. between any two output ports)		80 dB	70 dB	65 dB	60 dB
Input RF Power		50 dBm	Absolute maximum at 25 °C		

Environmental	
Operating temperature	0 to 50°C
Location	Indoor use only
Storage temperature	-50°C to +70°C
Humidity	20 to 95% non-condensing
Altitude	10,000 AMSL (Above Mean Sea Level)

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	30W	Max. consumption at steady state
PSU Redundancy	Dual redundant and alarmed	Diode OR

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	5 kg
Colour	White 00-E-55 semi-gloss

System Control	
Local Control	Via front panel push buttons and display
Remote Control	Via Serial port (RS232 or 422/485) and RJ45 Ethernet port.
Alarms	Dry contact (D-type) & Ethernet (RJ45) 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.

