



2x2 SHF Redundancy Switch

with local and remote control via Ethernet

Typical applications:

- 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-3GHz DC-40GHz operating frequency range



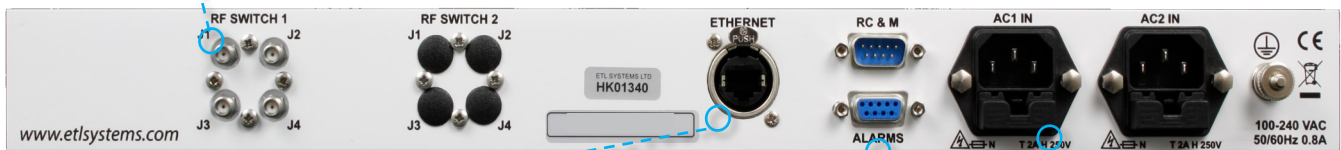
Compact housed in a 1U high chassis



Dual 2x2 Switch for redundancy switching



Note actual switch has RF Switch 2 fitted



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





Provisional technical specifications and operating parameters

RF Parameters						
Capacity	Dual 2x2 Switch					
Input & output ports	50Ω SMA			All Ports DC Pass		
Frequency Range	SW1 DC to 3 GHz, SW2 DC to 40 GHz					
Frequency (RF Switch 1)	0 - 3 GHz					
Insertion Loss	Maximum	0.2 dB				
	Gain Flatness					
Gain Flatness	Full band	± 1.0 dB				
	Any 80MHz	± 0.2 dB				
Input Return Loss	Typical	20 dB				
	Minimum	18 dB				
Output Return Loss	Typical	20 dB				
	Minimum	18 dB				
Isolation (Min. between any two output ports)	80 dB					
Frequency (RF Switch 2)	0 - 6 GHz	6 - 12.4 GHz	12.4-18 GHz	18 -26.5 GHz	26.5 -40 GHz	
Insertion Loss	Maximum	0.3 dB	0.4 dB	0.5 dB	0.7 dB	0.8 dB
	Input Return Loss	Typical	19 dB	17 dB	15 dB	13 dB
Minimum		17 dB	15 dB	13 dB	11 dB	10 dB
Output Return Loss	Typical	19 dB	17 dB	15 dB	13 dB	12 dB
	Minimum	17 dB	15 dB	13 dB	11 dB	10 dB
Isolation (Min. between any two output ports)	70 dB	60 dB	60 dB	55 dB	50 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. Includes web browser interface.
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU and Amp. 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.

