



2:1 IF Redundancy Switch

with RF detection, local & remote control & monitoring

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.
- Remote controlled unmanned satcom sites.



50 - 90 MHz
operating frequency range

Dry contact alarm port
change-over dry contact

Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface & RS232/485 serial port.

Resilience from dual redundant power supplies





Technical specifications and operating parameters

RF Parameters				
Frequency Range	50-90 MHz			
Gain	0 dB \pm 1 dB		Nominal, mean across band	
Connector type (Asymmetric types also available)	50 Ω SMA	50 Ω N-Type	50 Ω BNC	75 Ω BNC
Flatness	-	\pm 1.25 dB	\pm 1.25 dB	\pm 1.3 dB
Input Return Loss	20 dB	15 dB	15 dB	12 dB
Output Return Loss	20 dB	15 dB	15 dB	12 dB
Isolation	Input - Output	55d B		65 dB typical
	Input - Input	60 dB		65 dB typical
1dB Gain Compression	0 dBm		+5 dBm typical, 0 dBm minimum.	
Noise Figure	10 dB			
Operational Range*	-50 dBm to 0 dBm		50 dB dynamic range. Limits may be set within this range.	

Power		
Automatic Switching Time	200 ms typical	From detection of failure
AC Power	100-240 VAC, 50/600Hz, 0.25A	Fused 2A
Input RF Power	+16 dBm	Exceeding this level could result in permanent damage
Display	LEDs	Current route
LNB Power	Not available	
PSU Redundancy	Dual Redundant	Diode shared
Hot Swap PSU	None	

Environmental	
Operating Temperature	0 to 50°C
Location	Indoor use only
Storage Temperature	-20°C to +75°C
Humidity	20 to 85% non-condensing

System Control	
Control	Via RS232/485 Ethernet port & local.
Display	LEDs on front panel
Alarms	Change-over dry contact, rear mounted D-type.

Physical	
Dimensions	1U high x 350mm deep x 19" wide
Weight	3 kg
Colour	RAL9003 - White (Semi-Matte)

* Power level detection accuracy is typically \pm 1 dB across the mid range and \pm 2.5 dB at the extreme ends of the range. This could result in differing power levels reported by the unit.

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.

