ETL Systems

Excelling in RF Engineering

Model Number:
23237-XXXX

Dual 2x2 SHF Modem Redundancy Switch

With local and remote control via Ethernet & serial ports

Typical applications:

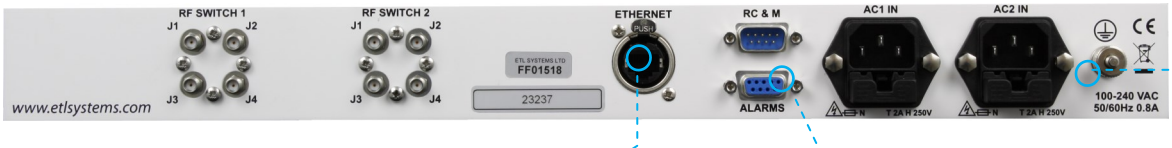
- Signal Carrier Monitoring of satellite feeds.
- RF Switching for yachts, ships & other marine applications
- Redundancy switching for main & standby satellite dishes
- Redundancy switching for main & standby IRD/modems
- Redundancy switching for up-converters & downconverters
- Remote controlled unmanned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

Local control & monitoring via front panel push buttons & display

DC-18GHz operating frequency range.

Compact housed in a 1U high chassis

Dual 2x2 Switch for redundancy



Resilience from dual redundant power supplies

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

Dry contact alarm port & serial communications for power supply status

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Dual 2:2 Modem Redundancy Switch with local and remote control via Ethernet & serial ports

Technical specifications and operating parameters

RF Parameters					
Capacity		Dual 2:2 Switch			
Input & output ports		50Ω SMA or N-type		All ports DC Pass	
Frequency Range		DC to 18GHz			
Frequency		0 - 3 GHz	3 - 8 GHz	8 -12.4 GHz	12.4 -18 GHz
Insertion Loss		0.2 dB	0.3 dB	0.4 dB	0.5 dB
Gain Flatness	Full	± 1.0 dB	± 1.0 dB	± 1.0 dB	± 1.0 dB
	Any 80MHz	± 0.2 dB	± 0.2 dB	± 0.2 dB	± 0.2 dB
Input Return Loss	Typical	20 dB	18 dB	16 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 (Max)		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 90% non-condensing	
Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	30W	Max. consumption at steady state
LNB Power	None	
PSU	Dual redundant and alarmed	
Hot-swap PSU	No	
System Control		
Local Control	Via push buttons on front panel	
Remote Control	Via RS232/422/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.	
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amp. status	
Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	5 kg	
Colour	White 00-E-55 semi-gloss	

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.

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