ETL Systems

Excelling in RF Engineering

Model Number:
23217-XXXX

6x1 SHF Switch

with dual redundant power supplies & local & remote control

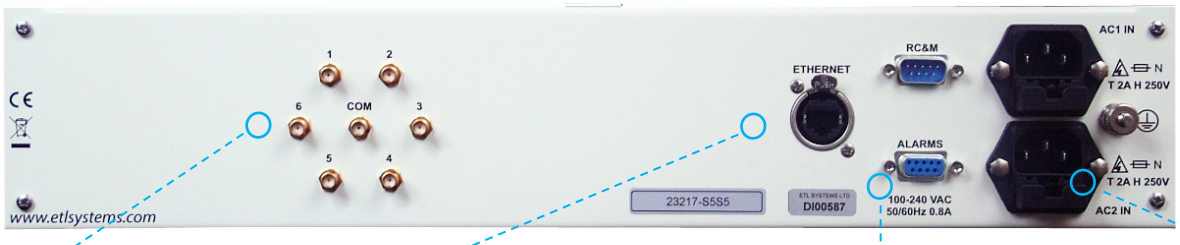
Typical applications:

- Signal carrier monitoring of satellite feeds
- Redundancy switching for main applications.
- Remote controlled unmanned satcom sites
- Routing signal to multiple IRDs

DC to 18 GHz frequency range

Local control & monitoring via front panel push buttons & display

Compact housed in a 2U high chassis



Passive unit either one signal my be switched to 6 outputs or 6 inputs may be directed to a single output one at a time

Remote control & monitoring via RS232/422/485 Serial and RJ45 Ethernet ports

Dry contact alarm port & serial communications for power supply status

Resilience from dual redundant power supplies

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Technical specifications and operating parameters

RF Parameters					
Capacity		1 input x 6 outputs or 6 inputs x 1 output			
Input & Output Ports		50Ω SMA or N-type			
Frequency Range		DC to 18 GHz			
Frequency (GHz)		0 - 3	3 - 8	8 - 12.4	12.4 - 18
Insertion Loss		0.5±0.5 dB	0.75±0.5 dB	1.0±0.5 dB	1.4±0.5 dB
Gain Flatness	Full band	±1.0 dB	±1.0 dB	±1.0 dB	±1.0 dB
	Any 80 MHz	±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	16 dB	14 dB	14 dB
Output Return Loss	Typical	20 dB	18 dB	16 dB	16 dB
	Minimum	18 dB	16 dB	14 dB	14 dB
Isolation		60 dB Maximum between any two output ports			
Input RF Power		30 dBm Absolute maximum			

Physical	
Dimensions	2U high x 350mm deep x 19" wide
Weight	6 kg
Colour	White 00-E-55 semi-gloss

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 feet AMSL (above mean sea level)

Power		
PSU Power	85-264Vac 50-60Hz	Fused 2A
AC Consumption	30W	Max. consumption at steady state
PSU	Dual redundant and alarmed.	Diode OR. Not hot-swap.

System Control	
Local Control & Monitoring	Via Front Panel LCD and push buttons
Remote Control & Monitoring	Via RS232 or RS422/485 serial port 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.

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