

## 32x1 IF/Extended L-band LS Series Monitoring Switch with local & remote control

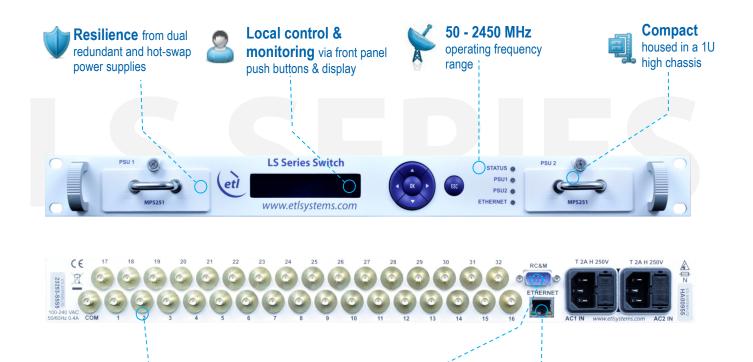
## **Typical applications:**

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

ETL's LS series range of monitoring switches are available in capacities of 8x1, 16x1, 32x1, 1x8, 16x1 and 32x1. Options with high 1dB gain compression point are also available for high power applications.

LS switches use solid state switching and so benefit from long life and excellent RF performance.

Other options in the LS Series Range include optional front panel -20dB monitoring port and optional Power over Ethernet (PoE).



With faster switching time, improved return loss & isolation



Dry contact alarm port & serial communications for amplifier & power supply status

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



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## Model Number: 23253-XXXX

			RF Parame	ters		
Capacity			32-way Switch			
Frequency Range			50-2450 MHz (IF/Extended L-band)			
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Gain		0±1 dB	0±1 dB	0±1 dB	0±1 dB	
Gain Full band		±1.0 dB	±0.8 dB	±1.5 dB	±1.5 dB	
Flatness	Any 36MHz		±0.3 dB	±0.3 dB	±0.5 dB	±0.5 dB
	Inputs 1-16	Typical	21dB	21dB	14 dB	14 dB
	50-2450 MHz	Minimum	16 dB	16 dB	8 dB	8 dB
Input	Inputs 17-32 200-2450 MHz	Typical	15 dB	15 dB	12 dB	12 dB
Return Loss		Minimum	13 dB	13 dB	8 dB	8 dB
	Inputs 17-32 50-200 MHz	Typical	20 dB	20 dB	14 dB	14 dB
		Minimum	16 dB	16 dB	8 dB	8 dB
Output	Typical		20 dB	20 dB	14 dB	14 dB
Return Loss	Minimum		18 dB	18 dB	8 dB	8 dB
Isolation	O/P-O/P		75 dB Min. between any two output ports			
ISUIALION	O/P-I/P		75 dB Min. between any output port and input port			
Noise Fig	ure		18 dB Maximum (16 dB Typical)			
1dB Gain	Compression F	Point	+10 dBm 1dB gain compression point, output power			
OIP3			+20 dBm 3rd order intercept point, output power			
0	In band		< -95 dBm Typical < -105 dBm			
Spurious	Out of band		< -80 dBm 10 MHz - 3 GHz			
Input RF Power			20 dBm	Absolute maximum		
MTBF		>100,000 Hrs				

## Technical specifications and operating parameters

Environmental				
Operating temperature 0 to 45°C				
Location	Indoor use only			
Storage temperature	-20°C to +75°C			
Humidity	20 to 90% non-condensing	Relative Humidity		
Altitude	10,000 feet AMSL	Above mean sea level		

Power				
PSU Power	85-264Vac 50-60Hz	Fused T 2A H		
AC Consumption	6W	Max. consumption at steady state		
PSU Redundancy	Dual redundant & alarmed	Diode OR. Hot swap		

System Control				
Local Control	Via front panel LCD & push buttons			
Remote Control & Monitoring	Serial (RS232 or RS422/485) and Ethernet (RJ45-100BASE -TX) with SNMP & web browser interface	Enables control and monitoring and alarms status		
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amplifier status			

Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	4 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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