



1 x 32 IF / Extended L-band LS Series Monitoring Switch

with local & remote control

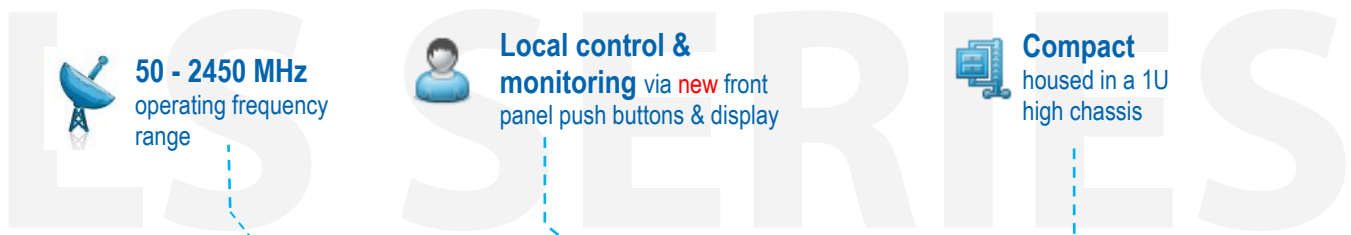
Typical applications:

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

ETL's LS series range of monitoring switches are available in capacities of 1x8, 1x16, 1x32 and 8x1, 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).



50 - 2450 MHz
operating frequency range



Local control & monitoring via new front panel push buttons & display



Compact housed in a 1U high chassis



Remote control & monitoring via serial (RS232 or 422/485) and Ethernet (RJ45) on rear panel



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



Resilience from dual redundant power supplies





Technical specifications and operating parameters

PRELIMINARY

RF Parameters					
Capacity	32 way Switch				
Frequency Range	50-2450 MHz (IF/Extended L-band)				
Impedance & 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 Flatness	Full Band	± 0.8 dB	± 0.8 dB	± 1.5 dB	± 1.5 dB
	Any 36 MHz	± 0.3 dB	± 0.3 dB	± 0.5 dB	± 0.5 dB
Input Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Minimum	18 dB	18 dB	8 dB	8 dB
Output Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Minimum	16 dB	16 dB	8 dB	8 dB
Isolation	O/P-O/P	75 dB	Minimum between any two output ports.		
	O/P-I/P	75 dB	Minimum between any output port and input port.		
Noise Figure	13 dB	Typical			
1 dB GCP	10 dBm	1 dB Gain Compression point, output power.			
OIP3	26 dBm	3rd order intercept point, output power.			
Spurious	In Band	<-95 dBm	Typically <-105 dBm		
	Out of Band	<-80 dBm	10 MHz-3GHz		
Input RF Power	21 dBm	Absolute maximum			
MTBF	>100,000 hours.				

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	20 to 90% non-condensing

Power		
PSU Power	85-264Vac 50/60Hz	Fused T 2A H
AC Consumption	6W	Maximum consumption at steady state
PSU	Dual Redundant and Alarmed	Diode OR. Not hot-swap
Input RF Power	16 dBm	Absolute Maximum

System Control	
Local Control	Via push buttons and display
Remote Control & Monitoring	Via RS232 or RS422/485 serial port & RJ45 Ethernet port (100BASE-TX) with SNMP & web browser interface.
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.

