



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).

Resilience from dual redundant and hot-swap power supplies



Local control & monitoring via front panel push buttons & display



50 - 2450 MHz operating frequency range



Compact housed in a 1U high chassis



Improved Performance 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





Technical specifications and operating parameters

RF Parameters						
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 Flatness	Full band	±1.0 dB	±0.8 dB	±1.5 dB	±1.5 dB	
	Any 36MHz	±0.3 dB	±0.3 dB	±0.5 dB	±0.5 dB	
Input Return Loss	Inputs 1-16 50-2450 MHz	Typical	21dB	21dB	14 dB	14 dB
		Minimum	16 dB	16 dB	8 dB	8 dB
	Inputs 17-32 200-2450 MHz	Typical	15 dB	15 dB	12 dB	12 dB
		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 Return Loss	Typical	20 dB	20 dB	14 dB	14 dB	
	Minimum	18 dB	18 dB	8 dB	8 dB	
Isolation	O/P-O/P	75 dB Min. between any two output ports				
	O/P-I/P	75 dB Min. between any output port and input port				
Noise Figure		18 dB Maximum (16 dB Typical)				
1dB Gain Compression Point		+10 dBm	1dB gain compression point, output power			
OIP3		+20 dBm	3rd order intercept point, output power			
Spurious	In band	< -95 dBm	Typical < -105 dBm			
	Out of band	< -80 dBm	10 MHz - 3 GHz			
Input RF Power		20 dBm	Absolute maximum			
MTBF		>100,000 Hrs				

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.