

# 32x1 IF/Extended L-band LS Series Monitoring Switch

With local and remote control

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, hot-swap power supplies

## Local control & monitoring

via front panel push buttons & display

## 50 - 2450MHz

Operating frequency range

## Compact

1U chassis



## Improved performance

With faster switching time, improved return loss & isolation

## Dry contact alarm port

and serial communications for amplifier & power supply status

## Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface



RF Parameters			
Capacity		32-way	
Frequency Range		50-2450 MHz (IF/Extended L-band)	
Gain		0±1 dB	
Gain Flatness		Full band	0±1 dB
		Any 36MHz	0±3 dB
Input Return Loss	Inputs 1-16, 200-2450MHz	Typ.	24 dB
		Min.	20 dB
	Inputs 1-16 50-200MHz	Typ.	20 dB
		Min.	16 dB
	Inputs 17-32 200-2450MHz	Typ.	15 dB
		Min.	13 dB
	Inputs 17-32 50-200MHz	Typ.	20 dB
		Min.	16 dB
Output Return Loss		Typ.	20 dB
		Min.	18 dB
Isolation		O/P - O/P	75 dB min.
		O/P - I/P	75 dB min.
Noise Figure		18 dB max., 16 dB typ.	
1dB Gain Compression Point		10 dBm, output power	
OIP3		20 dBm, output power	
Spurious		In band	<-95 dBm (typ. <-105 dBm)
		Out of band	<-80 dBm (10MHz - 3GHz)
Input RF Power		20 dBm absolute max.	
MTBF		>100,000 hours	
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	
Alarms		Dry contact (D-type) & Ethernet (RJ45) for PSU & Amplifier status	



Power	
PSU Power	85-264Vac 50-60Hz (fused T 2A H)
AC Consumption	6W max. consumption at steady state
PSU Redundancy	Dual redundant and alarmed, hot swap
Physical & Environmental	
Dimensions	1U high x 350mm deep x 19" wide
Weight/Colour	4 kg/White 00-E-55 (semi-gloss)
Temperature	Operating: 0 to 45°C / Storage: -20°C to +75°C
Location/Humidity	Indoor use only — 20 to 90% non-condensing
Altitude	10,000 feet Above Mean Sea Level

Note 1: The specification quoted above is for 50 Ohm SMA variant. Other variants are available, please enquire. Performance may vary between variants.

Note 2: 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 3: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.