

16x1 IF/Extended L-Band LS Series Monitoring Switch

with local & remote control

ETL's LS series range of monitoring switches are available in capacities of 8x1, 16x1, 32x1, 1x8, 1x16 and 1x32. 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).

Improved Performance

with faster switching time, improved return loss & isolation

Local control & monitoring

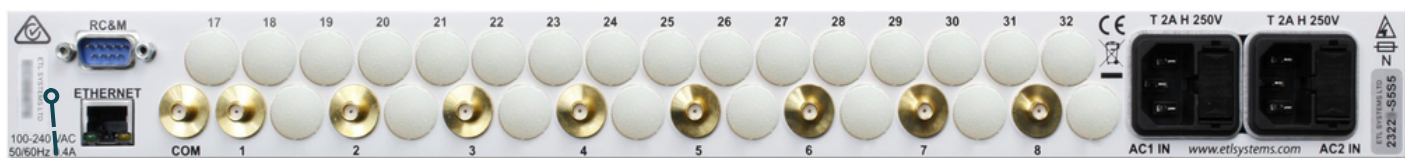
via front panel push buttons & display

Compact

housed in a 1U high chassis

50 - 2450 MHz

operating frequency range



Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface

Dry contact alarm port & serial communications

for amplifier & power supply status

Resilience

from dual redundant power supplies

RF Parameters					
Capacity		16-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	±1.0 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	21 dB typ., 16 dB min.	21 dB typ., 16 dB min.	14 dB typ., 8 dB min.	14 dB typ., 8 dB min.
	Inputs 17-32 200-2450 MHz	15 dB typ., 13 dB min.	15 dB typ., 13 dB min.	12 dB typ., 8 dB min.	12 dB typ., 8 dB min.
	Inputs 17-32 50-200 MHz	20 dB typ., 16 dB min.	20 dB typ., 16 dB min.	14 dB typ., 8 dB min.	14 dB typ., 8 dB min.
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	80 dB Min. between any two output ports			
	O/P-I/P	80 dB Min. between any output port and input port			
Noise Figures		18 dB Maximum (16 dB Typical)			
1dB GCP		+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			

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 <i>Enables control and monitoring and alarms status</i>
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 & alarmed	Diode OR. Not hot swap

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

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.