



Model Number: 23178-S5

RF Engineering  
and Custom Build

# 8 x 1 IF / L-band LS Series Switch

With Local & Remote Control (Via RS232/422/485 and RJ45 Ports)

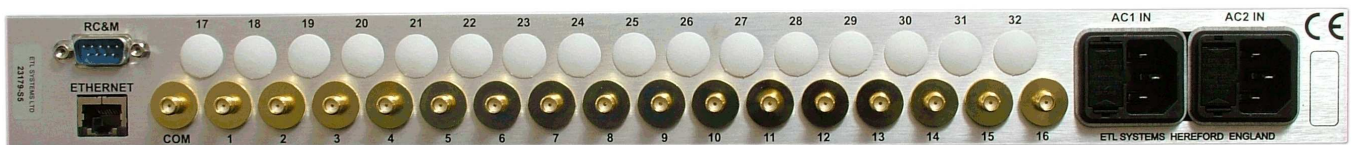


This 8x1 IF through L-band switch operates over the 50-2150MHz frequency range. The unit can be locally controlled using the keypad and display on the front panel, and remotely controlled via a Serial or Ethernet port on the rear panel.

Front View of Model 23178-S5

The front panel HMI allows selection of the desired switch position, network configuration, shelf name and the ability to reboot the CPU.

The switch benefits from dual redundant power supplies, which can be monitored via the serial or Ethernet port on the rear panel.



Rear View of similar Model 23179 (16x1) with 50 ohm SMA connectors

As with all ETL switches the simple serial protocol facilitates rapid integration into most M & C systems.

This unit has 50 ohm SMA connectors but others are available (model numbers will vary).





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Technical specifications and operating parameters

## PRELIMINARY SPECIFICATIONS

### RF Parameters

Capacity	8 x 1		
Frequency Range	50-2150 MHz (IF / L-band)		
Gain	1.0 dB $\pm$ 1.0 dB nominal, mean across band		
Isolation	I/P—O/P	65 dB	
	I/P—I/P	70 dB	
1dB Compression	+5 dBm		
Flatness	$\pm$ 1.0 dB		
Noise Figure	17 dB		
Spurious	In band	<-95 dBm	Typically <-105 dBm
	Out of band	<- 80 dBm	10MHz-3GHz
Input Return Loss	15 dB typical		
Output Return Loss	15 dB typical		

### Physical

Connectors	SMA
Impedance	50 $\Omega$
Dimensions	1U high x 450mm deep x 19" wide
Weight	6 kg
Colour	White 00-E-55 semi-gloss

### Power

AC Power	85-264Vac 50/60Hz Fused 2A
LNB Power	None
PSU	Dual redundant
Hot-swap PSU	No

### System Control

Local Control	Via front panel push buttons and LCD Display
Remote Control	Via rear panel Serial (RS232/422/485) or Ethernet (RJ45) Port
Display	Front panel LCD Display

### Environmental

Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

### Key Features

Local and Remote Control (Serial & Ethernet ports)
Housed in a compact 1U high chassis
Dual redundant power supplies

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