



Model Number: 23157-B5

RF Engineering
and Custom Build

1 x 1 IF Switch

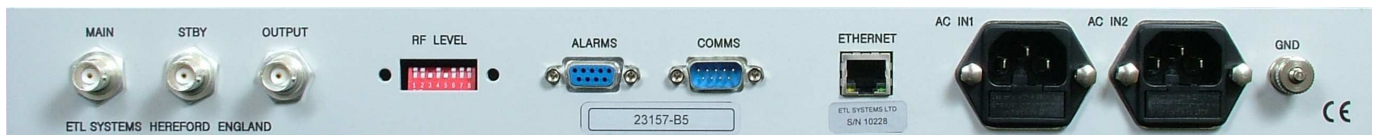
With Local and Remote Control (via RJ45 and/or RS232/422/485 Ports)



Front View of Model 23157-B5

This ETL 1x1 IF redundancy switch operates over the 20-200MHz frequency range. The unit incorporates an RF detection system and automatic switching of one of two inputs to the output.

The system monitors the Main and Standby signals. In Auto mode, it switches from Main to Standby feed in the event of the failure of the Main feed, if a Standby feed is present. The switch also monitors the Standby feed, and if this fails it will attempt to switch back to the Main feed. In Manual mode it is switched from the front panel. Remote selection of manual and auto mode and remote switching from Main to Standby and vice versa is also possible.



Rear View of Model 23157-B5

The unit also benefits from dual redundant power supplies, which are monitored via front panel LEDs and a dry contact alarm port on the rear panel.

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





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and/or RS232/422/485 Ports)

Technical specifications and operating parameters

RF Parameters	
Capacity	1 x 1
Frequency Range	20 – 200 MHz (IF)
Gain	1 ± 1.0 dB nominal, mean across band
Flatness	± 0.5 dB typical
1 dB Compression	0 dBm minimum
Isolation	80 dB typical
Input Return Loss	18 dB typical
Output Return Loss	18 dB typical
Detection Range	-10 to -50 40 dB range
Threshold Uncertainty	± 2 dB

System Control	
Local Control	Via front panel push buttons to switch between operational
Remote Control	Via RJ45 Ethernet port or RS232/422/485 Serial Port
Display	Front panel LEDS for Power & PSU status, and an indication of
Alarms	Dry contact alarm port on rear

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

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

Physical	
Connectors	BNC
Impedance	50Ω
Dimensions	1U high x 350mm deep x 19" wide
Weight	5 kg
Colour	White 00-E-55 semi-gloss

Key Features	
Two operational modes	
RF detection on main and standby feeds	
Auto switchover in case of signal failure	
Local and remote control	
Dual redundant power supplies	

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