



Model Number: 23157-B5B5

RF Engineering
and Custom Build

1 x 1 IF Switch

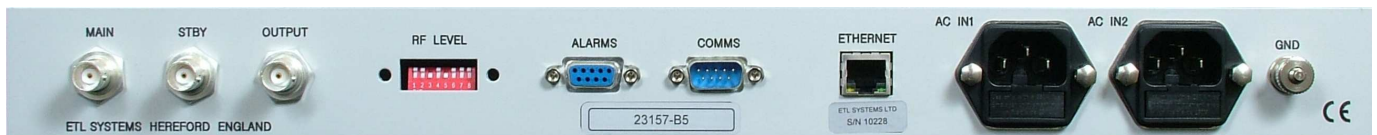
With Local and Remote Control (via RJ45 and/or RS232/422/485 Ports)



Front View of Model 23157-B5B5

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-B5B5

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 modes
Remote Control	Via RJ45 Ethernet port or RS232/422/485 Serial Port
Display	Front panel LEDs for Power & PSU status, and an indication of operational selected
Alarms	Dry contact alarm port on rear panel for PSU failure

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

Input Connectors	BNC
Input Impedance	50Ω
Output Connectors	BNC
Output 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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