

2 x 1 L-band Redundancy Switch

With Local & Remote Control (via RS232/RS485 or RJ45 ports)



This ETL 2 x 1 L-band redundancy switch incorporates an RF detection system and automatic switching of one of two inputs to the output. The system monitors the Main and Standby signals.

Front View of Model 23116-xxxx

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 switch back to the Main feed if present. 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. A contact-driven remote mode is also provided.



Rear View of Model 23116-B5B5 (with 50 ohm BNC connectors)

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 switch is available in a variety of connector types and impedances (model numbers will vary).





Model Number: 23116-xxxx

2 x 1 L-band Redundancy Switch with Local & Remote Control (via RS232/RS485 or RJ45 ports)

RF Engineering and Custom Build

Technical specifications and operating parameters

RF Parameters						
Capacity		2 x 1				
Frequency Range		850-2150 MHz (L-band)				
Connector & impedances		50 Ω SMA	50 Ω N-type	50 Ω BNC	75 Ω BNC	75Ω F-type
Gain (dB)		0±1.0	0±1.0	0±1.0	0±1.5	0±2.0
Gain flatness (dB)	850- 2150MHz	±1.25	±1.25	±1.25	±1.5	±1.5
	Any 36MHz	±0.50	±0.50	±0.50	±0.50	±0.75
Input return Ioss (dB)	Тур.	15	15	15	12	12
	Min	11	11	10	9	9
Output	Тур.	15	15	15	12	12
return loss (dB)	Min	11	11	10	9	9
Isolation	I/P-O/P	55dB	55dB 65 dB typical			
	I/P-I/P	60dB	65 dB typical			
1dB Compression		0dBm	Typical +3dBm			
Noise Figure		8 dB				
Operational Range *		-60 dBm to -10 dBm		50 dB dynamic range. Limits may be set within this range		
Automatic Switching Time		200 ms typical from detection of failure				

System Control				
Remote Control	Via RJ45 Ethernet port or RS232/485 Serial Port			
Local Control	Via front panel push buttons			
Display	Front panel LED's indicating operational mode and power supply status			
Alarms	Dry contact alarm port on rear panel for PSU failure			

* Power level detection accuracy is typically \pm 1 dB across the mid range and \pm 2.5 dB at the extreme ends of the range. This could result in differing power levels reported by the unit.

	Power		
AC Power	85-264V AC (50/60Hz) Fused 2A		
AC Consumption	5W, Max. Consump steady state	otion at	
LNB Power	None		
PSU	Dual redundant	Diode OR	
Hot-swap PSU	No		
Input RF Power	+16dBm (Absolute	maximum)	

Environmental			
Operating temperature	0 to 50°C		
Location	Indoor use only		
Storage temperature	-20°C to +75°C		
Humidity	20-85% non-condensing		

Physical		
Dimensions	1U high x 350mm deep x 19" wide	
Weight	3 kg	
Colour	White 00-E-55 semi-gloss	

Key Features		
Three 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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