



Model Number: 23166-S5S5

RF Engineering
and Custom Build

8 x 1 SHF Switch

With Local and Remote Control (via Serial RS232/422/485 and Ethernet RJ45 Port)



This high performance SHF switch operates over the DC-18GHz frequency range. The unit is designed to handle up to 8 satellite signal inputs and is ideal for carrier monitoring purposes.

Front View of Model 23166-S5S5

Control of this SHF switch can be done locally via the front panel buttons and LCD display, which indicates the currently selected input channel as a number between 1 and 8. Remote control and monitoring of the switch is via a serial (RS232/422/485) or Ethernet (RJ45) connection.

The switch benefits from dual redundant power supplies, which can be visually monitored using LEDs on the front panel or via a dry contact alarm port on the rear panel for PSU failure.



Rear View of Model 23166-S5S5

This particular unit is supplied with 50 ohm SMA connectors, but may be available in other connector types and impedances (model numbers will vary).





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Technical specifications and operating parameters

RF Parameters	
Capacity	8 x 1
Switch Type	Self-Latching
Frequency Range	DC - 18 GHz (SHF)
Insertion Loss	< 1.5 dB at 18 GHz
Flatness	1 dB typical
Isolation	60 dB
Gain Stability	± 0.02 dB / °C typical
Switch life	1,000,000 cycles min.

System Control	
Local Control	Via front panel pushbuttons
Remote Control	Via rear panel Serial RS232/422/485 and Ethernet RJ45 Port
Display	Front Panel LCD Display and LED's for PSU status

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

Physical	
Input Connector	SMA
Input Impedance	50Ω
Output Connector	SMA
Output Impedance	50Ω
Dimensions	2U high x 350mm deep x 19" wide
Colour	White 00-E-55 semi-gloss (Front panel)

Power	
AC Power	90-264V AC (50/60Hz), Fused 2A
PSU	Dual Redundant
Hot-swap PSU	None

Key Features	
Local and Remote Control	
Dual redundant power supplies	
Front panel LCD Display	

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