



Model Number: **23163-S5S5**

RF Engineering  
and Custom Build

## 4 x 1 SHF Switch

With Local and Remote Control (via RJ45 Ethernet Port)



Front View of Model 23163-S5S5

This SHF switch operates over the DC to 18 GHz frequency range. The unit can be locally controlled via front panel illuminated push buttons or remotely via an RJ45 Ethernet port on the rear panel.

The switch incorporates a coaxial relay multi-switch. This is self latching so the RF path is maintained even with total power loss. The controller reports any switch failure back to the M & C system and has dry contact alarms for PSU failure.

The switch is powered from a single mains power supply. An LED on the front panel shows the power on/off status, and there is a dry contact alarm port on the rear panel for PSU failure.



Rear View of Model 23163-S5S5

This particular unit has 50 ohm SMA connectors but a range of impedances and connectors are available (model numbers will vary).





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## Technical specifications and operating parameters

### RF Parameters

Capacity	4 x 1
Switch Type	Self-Latching
Frequency Range	DC – 18 GHz (SHF)
Insertion Loss	< 4 dB typical
Flatness	± 0.75 dB typical
Isolation	60 dB minimum
Gain Stability	± 0.02 dB / °C typical
Switch Life	1,000,000 cycles min.

### System Control

Local Control	Via front panel illuminated push buttons
Remote Control	Via RJ45 Ethernet port
Alarms	Dry contact alarm port on rear panel for PSU failure

### 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	85-264V AC (50/60Hz), Fused 2A
PSU	Single
Hot-swap PSU	None

### Key Features

- Local and Remote Control
- Dual redundant power supplies
- Dry contact alarm port for PSU failure

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