

# RFS8 8-Port Antenna Switch

**Signal Hound designs and builds premium accessible test and measurement equipment for engineers and RF professionals around the globe.**

## EXPERIENCE LIGHTNING-FAST SWITCH SPEEDS FOR MULTI-BAND AND DIRECTION FINDING APPLICATIONS - A DEPENDABLE SOLUTION.

The RFS8 is a single pole eight throw (SP8T) absorptive solid-state switch using silicon-on-insulator (SOI) technology providing RF switching across eight ports at up to 8 GHz. Switch from the LF band all the way through 8 GHz and utilize this versatile tool in pseudo-doppler direction finding applications. With extremely fast switch speeds, 100 ns rise/fall times, and direct access from Spike™, the RFS8 enables multi-band sweeping and direction finding to the BB60D and SP145 spectrum analyzers.

## APPLICATIONS

- Automated Testing
- Multi-Band Sweep
- Direction Finding
- Antenna Polarization
- Satellite Communications
- Industrial Automation and Test
- WIFI
- Cellular

## FEATURES

- 100 kHz to 8 GHz frequency range
- Switching from LF through 8 GHz
- Direct logic control
- 230 ns switch time
- Frequency or interval switching with supported hardware
- 100 ns rise/fall time




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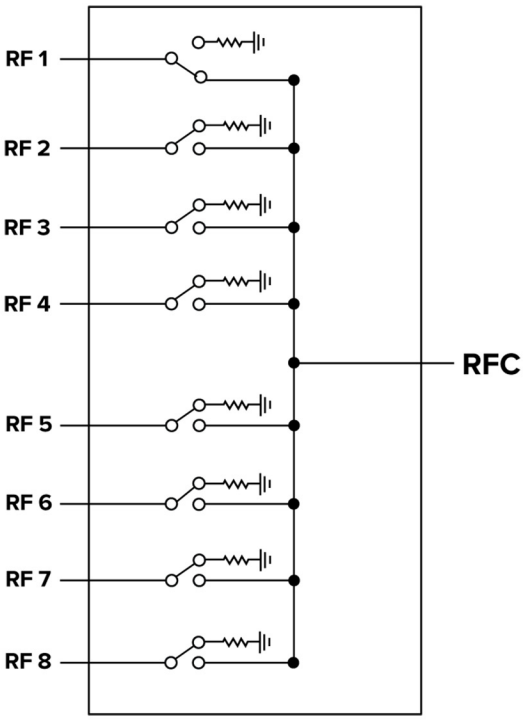
# RFS8 8-Port Antenna Switch

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## Production Specifications

| | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|---|---|---|---|---|
| Frequency | 0.0001 | | 8 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR RFin | | <2.0:1 | | |
| VSWR RFC | | <2.0:1 | | |
| Isolation | | >30 | | dB |
| Input Power | | | 20 | dBm |
| Rise/Fall Times (10%/90%) | | 100 | | ns |
| DB15 on/off | | 230 | | ns |
| UART on/off | | 20 | | us |
| USB on/off | | 20 | | ms |
| ESD (HBM) | 1000 | | | V |
| VIN RF1 - RF 4 | -16 | | 16 | V |
| VIN, RFC | -0.2 | | 0.2 | V |
| Operating Temperature | • Standard -40°F to 185°F (-40°C to +85°C) | | | |
| Size and Weight | • 6.67” x 4.17” x 1.37” (169mm x 106mm x 35mm) • 1.3 lbs. (0.58 kg) | | | |
| Power Consumption | • < 0.2W | | | |
| Connectivity | • Signal Hound Direct Connect to BB60D, BB60C, SP145, or SM200 Series<br>• Control over DB15, UART, or USB<br>• Powered over USB 2.0 or DB15 | | | |

### RFS8 Architecture




### Signal Hound Direct Connect: RFS8 to BB60D

