Hi-Z Antennas™
Part Number RSW821
Hi-Z 8 Input to One Output 75 OHM Receiving Antenna Switch For Remote Operation

Congratulations and Thank You for the purchase of our system components. We recommend that you read this manual and fully understand the requirements for the proper installation of your system.
No more listening to all your RX antennas at once with >70 dB on to off Isolation
Specifications

- 75 OHM impedance coaxial cable one of eight switch
- Remotely Switch One of eight receiving Antennas
- Remote operation can be operated by contact closure or activated by +13.8 VDC
- Power Requirements 13.8 VDC at 30 mA when using Contact closure switching.
- Switching current is 30 mA or less.
- Provides a ½ Watt 75 ohm termination for non-switched inputs
- Greater than 70 dB of on to off isolation from 50 KHz to 10 MHz
- SWR contribution less than 1.3:1 from 50 KHz to 10 MHz
- Quality Type F 75 ohm connectors
- Physical size excluding connectors is 4 1/2 x 8 x 2 1/2 inches

Spectrum Analyzer Shots of ON and OFF

![Spectrum Analyzer Shots of ON and OFF](image)

Left picture is Switch on for full scale  Right picture is switch off
Vertical scale is 10dB per division, Signal left is ~80 dB down Typical

- Perfect for Beverage antennas needing non-selected antennas terminated
- Also available in 50 Ohm versions P/N RSW822
- Power input protected with 18Volt MOV
- Supplied with matching 2.1mm power plug for your convenience
- High Quality relays for a long life
- Perfect for switching with CAT5 or 6 computer cable
Front Panel is used to accept the 8 cables to be switched

Rear panel is used for output, control, and power

Remote switching can be accomplished two ways. One, the standard Hi-Z switching scheme is to supply the RSW821 with +13.8 VDC on the power terminals. Then ground in turn whichever number terminal desired. Secondly, you can Ground the +13.8VDC (DO NOT CONNECT POWER) and then apply +13.8VDC to whichever number terminal you would like to select.

Using the Standard Hi-Z switching scheme allows the use of any of the Hi-Z wireless controllers for selection or the CTRL821 controllers.

CTRL821
CAT5 or 6 wire is perfect for use with the CTRL series controllers.
No wires but power wires are needed with the wireless unit.
These switches have only a 30 ma current requirement.
The CTRL controllers can be used to drive the wireless inputs for end to end operation.
Typical schematic for the switching portion of the RSW421 RSW422, RSW821, and RSW822 four and eight input remote switches. Only 4 relays are shown here as the 8 input switch circuits are exactly the same.

Attach Jumper for Positive Voltage Relay Actuation
Supply +13.8 VDC For Grounded Relay Activation