



RIC-2 Repeater Interoperability Controller



The RIC-2 is a tone remote adaptor that allows two repeaters connected by a dedicated phone line, telemetry link or microwave to key one another. For instance when Repeater A receives a signal from a portable or mobile radio, the repeater gives a COR signal to the RIC-2. The RIC-2 will generate 2175 Hz high-level guard tone, function tone and low-level guard tone to Repeater B's RIC-2 to key Repeater B and re-transmit the audio coming from Repeater A. Function tone F4 is used to have Repeater A key Repeater B and function tone F5 to have Repeater B key Repeater A.

Additionally, a tone remote controller can be connected to the two RIC-2 units for steering control mode. In addition to the scenario above, the tone remote controller can transmit to Repeater A using function tone F1, Repeater B using function tone F2 or simulcast to both Repeaters A and B using function tone F3.

RIC-8 Repeater Interoperability Controller



A DTMF equipped tone remote controller that can control up to eight RIC-8 units in parallel over a single dedicated line. The tone remote controller sends DTMF commands to allow the RIC-8 units and their associated repeaters to interoperate. The RIC-8 is a special tone remote adaptor that generates 2175 Hz keying tone when the radio's COR is present. The 2175 Hz keying tone activates only the radios that have received a DTMF activation code from a tone remote controller or a mobile or portable radio equipped with DTMF dialing. All others ignore the 2175 Hz keying tone.

- Allows up to 8 radios to interoperate over a dedicated line
- Programmable Time Out Timer to limit interoperability time
- 2-wire or 4-wire capability
- Simulcast control from a tone remote or DTMF equipped field radio
- Requires Midian's KL-4 Programmer & KL-4 Option A

IS-1 Interoperability Switch / Cross-Band Repeater Maker



Midian Electronics' IS-1 is an interoperability switch or a cross-band repeater maker for allowing 2 radio systems on different channels, different bands or different protocols to communicate with one another. For example a UHF radio and a DMR radio can interoperate or a VHF radio can interoperate with a UHF P25 radio. This is ideal for interagency cooperation in emergency situations such as search & rescue, emergency relief, hostage situations, etc.

When the IS-1 sees COR or VOX from radio 1, the IS-1 will give a PTT output to radio 2 and pass the audio from radio 1 to radio 2 and vice versa. The IS-1 can be powered by a 9 Volt battery up to 40 hours, or can get the power from an external source such as a mobile radio or the wall power adaptor. A monitor output is available for monitoring the radio traffic or connecting to a voice recorder.

Available options include:

- **IS-1 Option A:** Preconfigured cables for simple installation for some radios
- **IS-1 Option C:** Optional DTMF, 5-Tone, Pulse Tone or 2-Tone decoder for remote enable/disable