



## Midian's Interoperability Switches

### IS-2 Interoperability Switch with Trunking Capabilities

Midian Electronics' IS-2 is an interoperability gateway that allows 2 radio systems on different channels, protocols or bands to communicate with one another. For example a Motorola MotoTRBO system and a Kenwood NEXEDGE system can interoperate or a VHF radio system can interoperate with a UHF P25 radio system. This is ideal for interagency cooperation in emergency situations such as search & rescue, emergency relief, hostage situations, etc.

When the IS-2 detects COR or VOX from radio system 1, the IS-2 will give a PTT output to radio system 2 and pass the audio from radio 1 to radio 2. If the second radio system is trunked the IS-2 will wait for a channel acquisition from radio 2 before transmitting. During the channel acquisition delay the IS-2 buffers the audio, so that words are not lost.

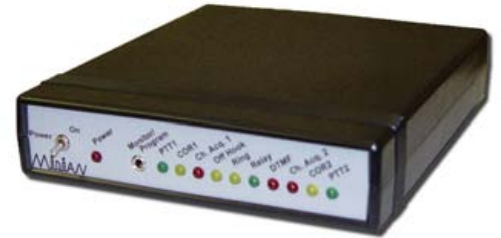
The IS-2 has a DTMF enable and disable feature, so the interoperability gateway can be used only when needed.

The IS-2 is powered from the connected radios or the 110-220 VAC wall power adaptor (included).

The IS-2 requires the KL-3 and KL-3 Option A for programming features such as polarities, audio levels and the DTMF enable/disable.

Available options include:

- **IS-2 Option A:** Preconfigured cables for simple installation



### IS-1 Interoperability Switch

Midian Electronics' IS-1 is an interoperability gateway or a cross-band repeater maker for allowing 2 radio systems on different channels or different bands to communicate with one another. For example a UHF radio system and an HF SSB radio system can interoperate or a VHF radio system can interoperate with a UHF P25 radio system. 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 system 1, the IS-1 will give a PTT output to radio system 2 and pass the audio from radio 1 to radio 2. The IS-1 can be powered by a 9 Volt battery for more than 40 hours, or can get the power from an external source such as one of the radios or from an optional wall power adaptor.

Available options include:

- **IS-1 Option A:** Preconfigured cables for simple installation
- **IS-1 Option B:** Optional wall adaptor (110-220 VAC)
- **IS-1 Option C:** Optional DTMF, 5-Tone, Pulse Tone or 2-Tone decoder for remote enable/disable
- **IS-1 Option D:** Optional Morse ID for in-band use

