

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.



- 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).
- Requires Midian's KL-4 Programmer and KL-4 Option A.

Voting Tone Encoder

VTE-1 Voting Tone Encoder

Midian Electronics' VTE-1, voting tone encoder (also known as a pilot tone generator or status tone generator) with a 600-ohm line driver, pairs with a radio receiver to create an analog satellite voting receiver or auxiliary receiver. Satellite voting receivers are spread out over a geographic area to provide greater radio coverage and are connected via a dedicated line, telemetry link or microwave to a voting comparator. The voting comparator looks at the signal to noise ratio from multiple voting receivers and passes the best quality signal to the dispatcher/repeater.

When the radio's COR is inactive the VTE-1 generates a pilot tone to the voting comparator. When the receiver's COR is active the tone is no longer generated and the audio from the radio is sent through the line driver to the voting comparator.

Midian's VTE-1 is compatible with the following types of voting systems:

- Motorola Spectra-TAC
- JPS Communications (Raytheon) SNV-12
- GE Mastr II
- RF Technologies Eclipse
- Other systems using 1950 Hz, 2175 Hz, 1600 Hz or 2700 Hz as the voting tone.
- Custom tones are available

