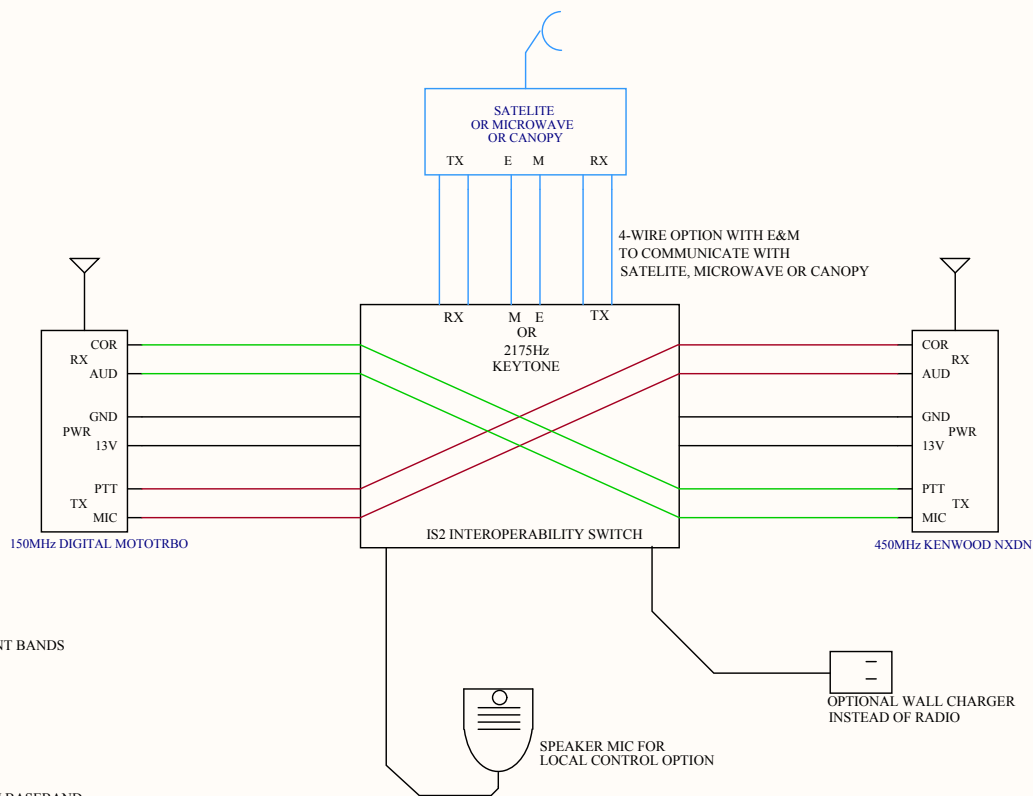


IS-2 INTEROPERABILITY SWITCH

ALLOWS YOU TO CONNECT 2 MOBILE OR PORTABLE RADIOS FOR CROSS COMMUNICATIONS BETWEEN THEM. VIRTUALLY ANY TYPES OF RADIOS CAN BE CROSS CONNECTED. AN 800MHz APCO RADIO COULD BE CROSS CONNECTED WITH A HF SINGLE SIDE BAND RADIO OR A 150 MHz ANALOG RADIO COULD BE CROSS CONNECTED WITH A 450MHz MOTOTRBO DIGITAL RADIO.



THIS DRAWING SHOWS 2 MOBILE RADIOS ON DIFFERENT BANDS WITH DIFFERENT FORMATS, IE ANALOG OR DIGITAL. THIS ALLOWS BOTH RADIOS TO CROSS CONNECT AS SHOWN WITH THE COLORED LINES.

IF DESIRED, THE IS-2 HAS ANOTHER OPTIONAL PORT THAT CAN BE CONNECTED TO THE 4-WIRE AUDIO E&M BASEBAND OF A SATELITE, MICROWAVE OR CANOPY SYSTEM.

WHEN USING THIS OPTION, ONE OF THE MOBILE PORTS MUST BE GIVEN UP.

THIS OPTION FINDS USE IN OIL PLATFORMS OUT IN THE MIDDLE OF THE OCEAN WANTING TO TALK BACK VIA SATELITE TO A LAND BASE OR OCEAN BASE 2-WAY RADIO SYSTEM.

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.

MIDIAN ELECTRONICS, INC.

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