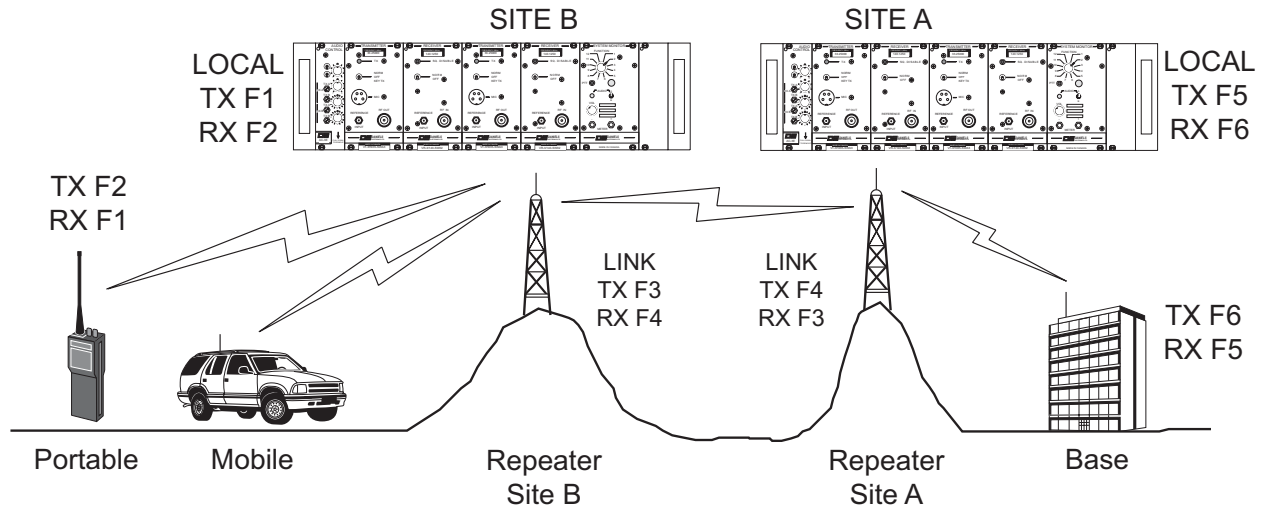


AN410 Crossband Link Repeater System

FM Voice Radio Systems

“Extending Radio System Interoperability”



Requirement

Interoperability between users on different frequency bands is required. Distances or geographical features obstruct paths between users on a single repeater and a second repeater needs to be installed.

Solution

A crossband link repeater has the ability of being able to transmit and receive on different bands. Using different frequency bands a crossband link system can receive from a user on one frequency band, link to another repeater using a second frequency band and transmit to a second user on a third frequency band. This system does not need to use different frequency bands, only different frequencies within that band (See diagram). Daniels crossband repeaters are capable of receiving and transmitting on any combination of frequency bands, AM, Lowband, VHF, UHF, 800 MHz and 900 MHz

Frequency Bands / RF Power Output

- 30 - 50 MHz / 3, 40, 100, 250 Watts
- 132 - 174 MHz / 8, 30, 100 Watts
- 406 - 470 MHz / 2, 8, 30, 100 Watts
- 806 - 869 MHz / 3 Watts
- 896 - 960 MHz / 3 Watts

Related Applications

- AN300 Multiple Linked Repeater System
- AN400 Crossband Repeater System

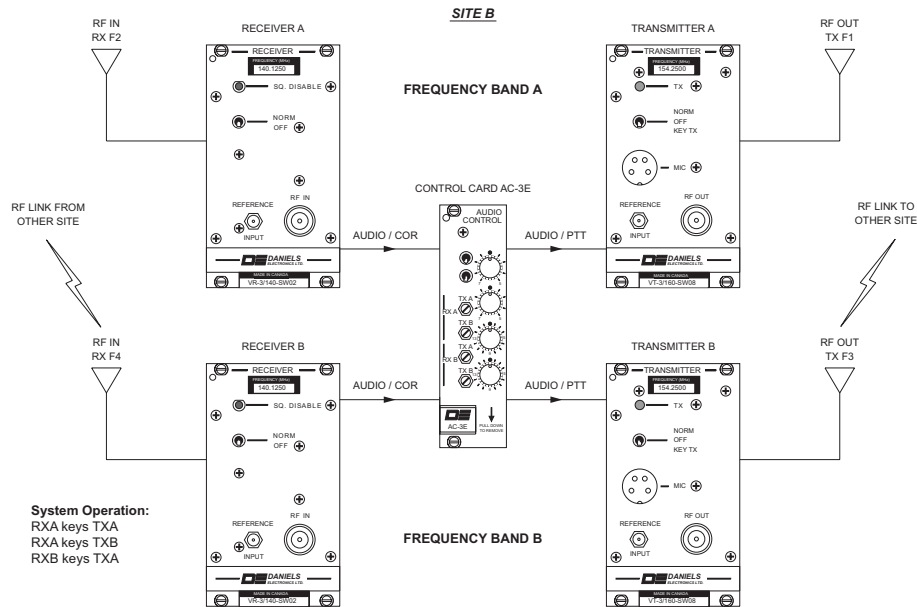
Available Options / Features

- CTCSS, DTMF, DCS Control of Links,
- Telephone Interconnect

AN410 Crossband Link Repeater System

“Extending Radio System Interoperability”

System Block Diagram



Sample Block Diagram of a Crossband Link Repeater (with local repeat)

Required Equipment

- **xT-3/xxx-xxxxxx** Two VHF / UHF Transmitter Modules
- **xR-3/xxx-xxxxxx** Two VHF / UHF Receiver Modules
- **SR-39-1** Subrack
- **SM-3-H0-014-00** System Monitor
- **A-MIC-01** Microphone
- **IMxx-xxxxxxx** Instruction manuals
- **AC-3E** Audio Control Card

Optional Equipment

- **AMP-2/xxx-30-00** 30 Watt Power Amplifier
- **SM-3-H0-R1N-00** System Monitor with Single Antenna Relay
- **AC-DTMF-D2** DTMF decoder module
- **AC-CTCSS-DE1** CTCSS decoder / encoder modules
- **AC-SCS-xRS** 16 Channel Frequency Select Rotary Switch
- **PSA-12A09-P0-00** AC Power Supply
- **PSD-15/08-P0-xx** DC to DC Power Supply

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