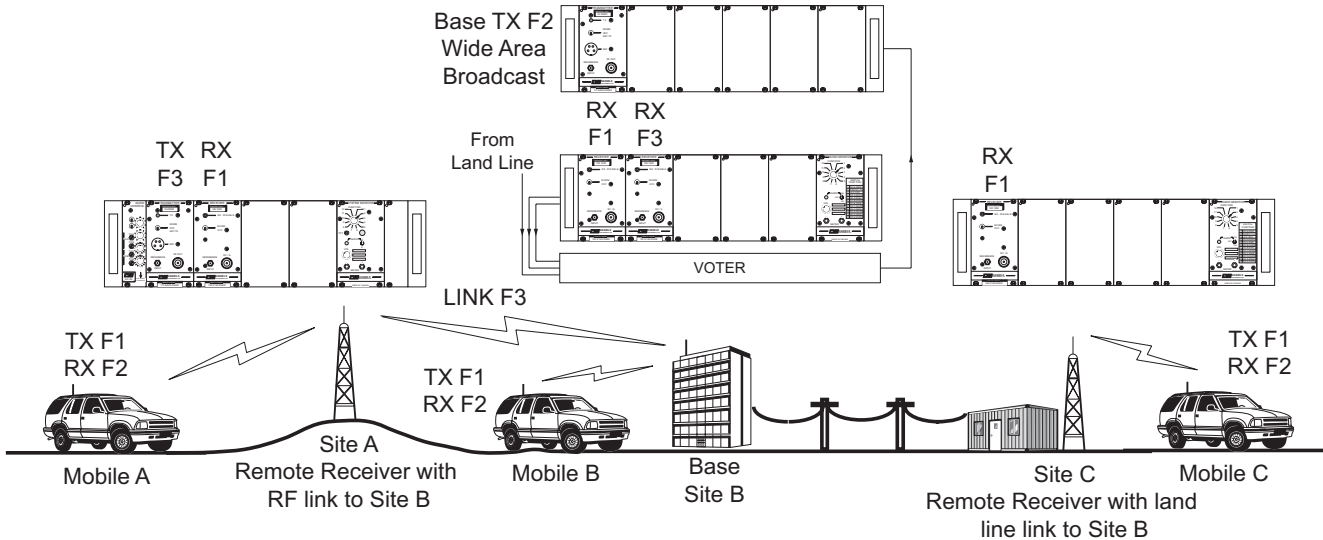


AN600 Multiple Receiver Voting

“Improving Mobile and Portable talk-back capability”



Requirement

A receiver voting system is required to improve the talk-back capability of mobiles in the field.

Solution

Daniels radio equipment is ideally suited for operation in receiver voting systems. These types of systems may require multiple receivers in a single subrack and combinations of receivers and transmitters. Each receiver output includes a COR line and several audio access points. These are typically used by the voter for receiver selection and transmitter steering.

The generic system shown allows remote mobiles to contact other remote users. The local RX 1 frequencies are back hauled to the base station. Site A uses a radio link. Site C uses a leased line. Site B is the resident Local base receiver. The voter will determine the "best" RX and rebroadcast the signal from the base on TX F2.

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
- AN410 Crossband Link Repeater System

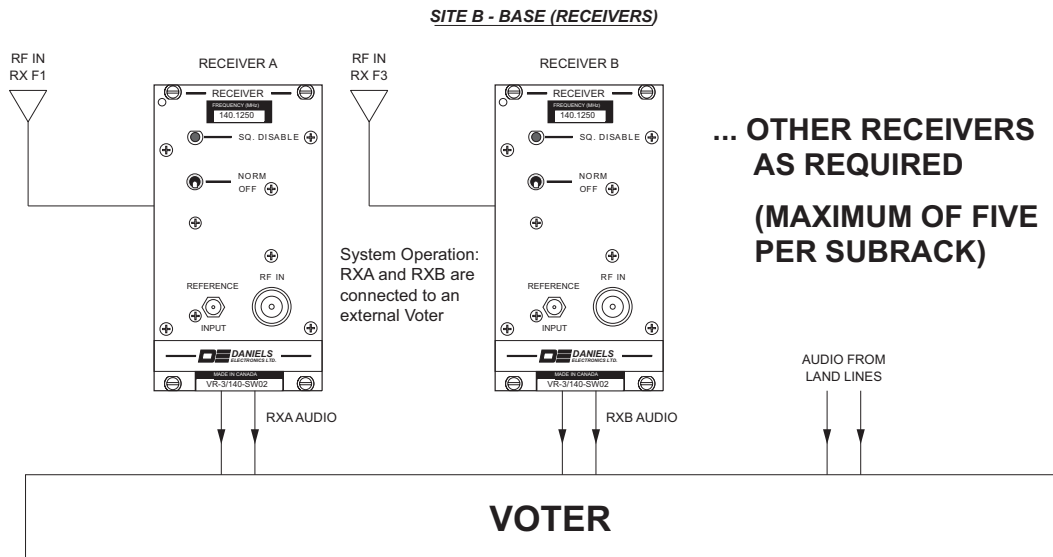
Available Options / Features

CTCSS, DCS, Telephone Interconnect

AN600 Multiple Receiver Voting

“Improving Mobile and Portable talk-back capability”

System Block Diagram



Sample Block Diagram of a Multiple Receiver Voting System

Required Equipment

- **SR-39-3** Multiple Receiver Subrack (Holds up to five receivers)
- **SM-3-H0-014-05** Audio Monitor
- **SR-39-4** Multiple Transmitter Subrack (Holds up to five transmitters)
- **xR-3/xxx-xxxx00** Receiver Modules
- **xT-3/xxx-xxxx00** Transmitter Modules
- **IMxx-xxxxxxx** Instruction manuals

* Required Equipment depends on configuration of Voting System *

Optional Equipment

- **AC-CAT-E1** Status Tone Encoder
- **AMP-2/xxx-30-00** 30 Watt Power Amplifier
- **AC-CTCSS-DE1** CTCSS decoder / encoder modules
- **AC-DCS1** Digitally Coded Squelch
- **PSA-12A09-P0-00** AC Power Supply
- **PSD-15/08-P0-xx** DC to DC Power Supply