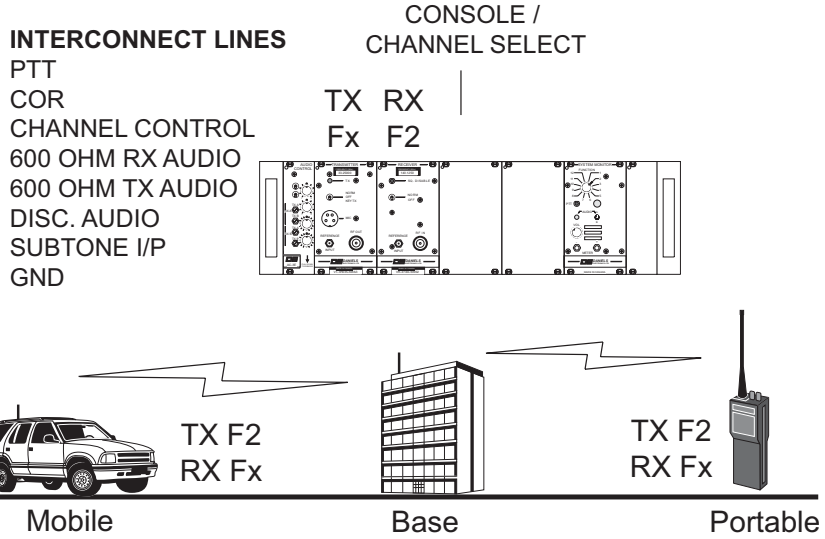


**AN580 Radio Station with Channel Selection Systems**  
**“Locally or Remotely Switching Radio Channels”**



**Requirement**

The radio system needs to operate on more than one frequency, either by remotely switching channels through tones, or locally switching channels manually.

**Solution**

Daniels Electronics MT-3 series of Transmitters and Receivers each have a 16 channel capacity. Each receiver and transmitter has 4 independent channel lines which are brought out from the subrack. Control of these channels can be made through the Auxiliary Control and the Control Module. Channels can also be selected with jumpers on the subrack, through optional front panel rotary switches or by accessing the channel select lines through an auxiliary connector. Channels may be selected remotely by using tone sequences.

**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**

- AN500 Tone or DC Remote Base Station
- AN560 Radio Station with Tone Conversion

**Available Options / Features**

- CTCSS, DTMF, DCS, Telephone Interconnect, Multiple Channels

43 Erie Street  
Victoria, B.C.  
Canada V8V 1P8

**Toll Free** Canada & U.S.A.  
Phone: 1-800-664-4066  
Fax: 1-877-750-0004

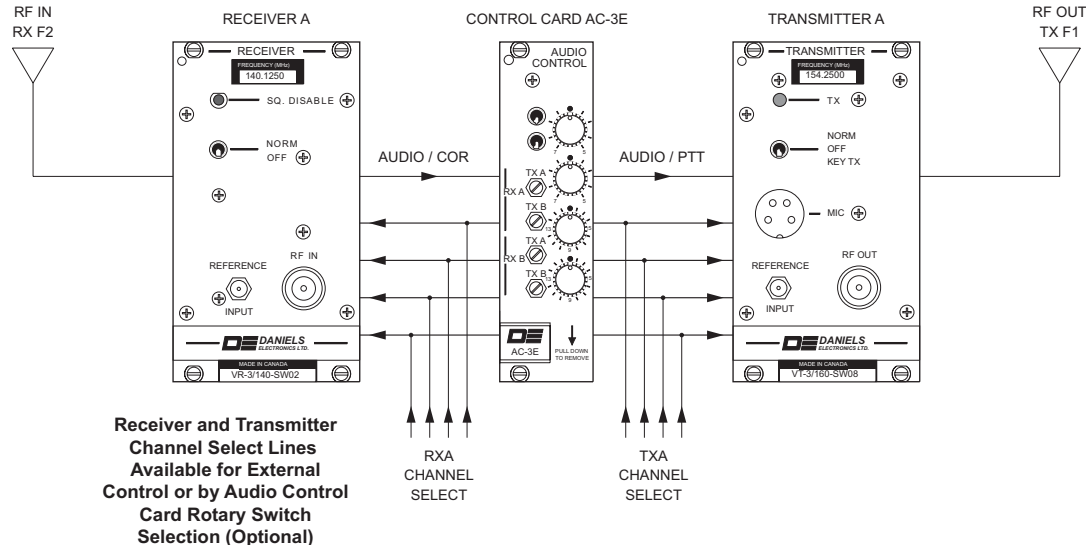
**International**  
Phone: 250-382-8268  
Fax: 250-382-6139

**Internet**  
e-mail: sales@danelec.com  
web: www.danelec.com

# AN580 Radio Station with Channel Selection Systems

## “Locally or Remotely Switching Radio Channels”

### System Block Diagram



*Sample Block Diagram of a Radio Station with Channel Selection*

### Required Equipment

- |                          |                              |
|--------------------------|------------------------------|
| • <b>xT-3/xxx-xxxxxx</b> | VHF / UHF Transmitter Module |
| • <b>xR-3/xxx-xxxxxx</b> | VHF / UHF Receiver Module    |
| • <b>SR-39-1</b>         | Subrack                      |
| • <b>SM-3-H0-014-00</b>  | System Monitor               |
| • <b>A-MIC-01</b>        | Microphone                   |
| • <b>IMxx-xxxxxxx</b>    | Instruction manuals          |
| • <b>AC-3E</b>           | Audio Control Card           |
| • <b>A-PNL-AUX96-3</b>   | Auxiliary 96 pin Connector   |

### Optional Equipment

- |                          |   |
|--------------------------|---|
| • <b>AC-SCS-1RS</b>      | 16 Channel frequency select rotary switch (Tx and Rx same)            |
| • <b>AC-SCS-2RS</b>      | Two 16 Channel frequency select rotary switches (Tx and Rx different) |
| • <b>CI-DSP-223</b>      | Vega Tone Remote Station Adapter                                      |
| • <b>AMP-2/xxx-30-00</b> | 30 Watt Power Amplifier   |
| • <b>SM-3-H0-R1N-00</b>  | System Monitor with Single Antenna Relay                              |
| • <b>AC-DTMF-D2</b>      | DTMF decoder module   |
| • <b>AC-CTCSS-DE1</b>    | CTCSS decoder / encoder modules                                       |
| • <b>PSA-12A09-P0-00</b> | AC Power Supply   |
| • <b>PSD-15/08-P0-xx</b> | DC to DC Power Supply   |