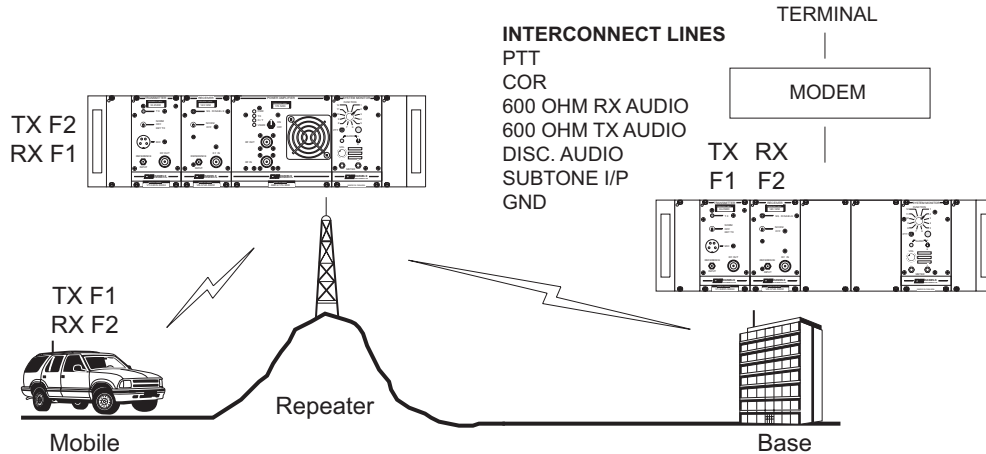


**AN1500 1200 / 2400 Baud FSK Radio Station**

**Data Only Radio Systems**

**“Slow Speed Data Transmission”**



**Requirement**

A repeater is required to send voice / FSK data transmissions or FSK data only transmissions from a base to mobiles in the field or vice versa. Speeds of 1200 or 2400 baud are required.

**Solution**

Daniels repeater setup requires that the normal audio responses within the TX and RX modules are set to flat with audio compression disabled. Additional data regeneration equipment is not required. With data rates of 1200 baud you may transmit through three linked sites without using regeneration. At data rates of 2400 baud you may transmit through one site without regeneration. This is an economical solution for sites requiring intermittent voice and data capability.

Note: telephone modems are generally not suitable for radio applications.

**Frequency Bands / RF Power Output**

- 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**

AN100 Basic Repeater System

**Available Options / Features**

Continuous Duty Setup

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

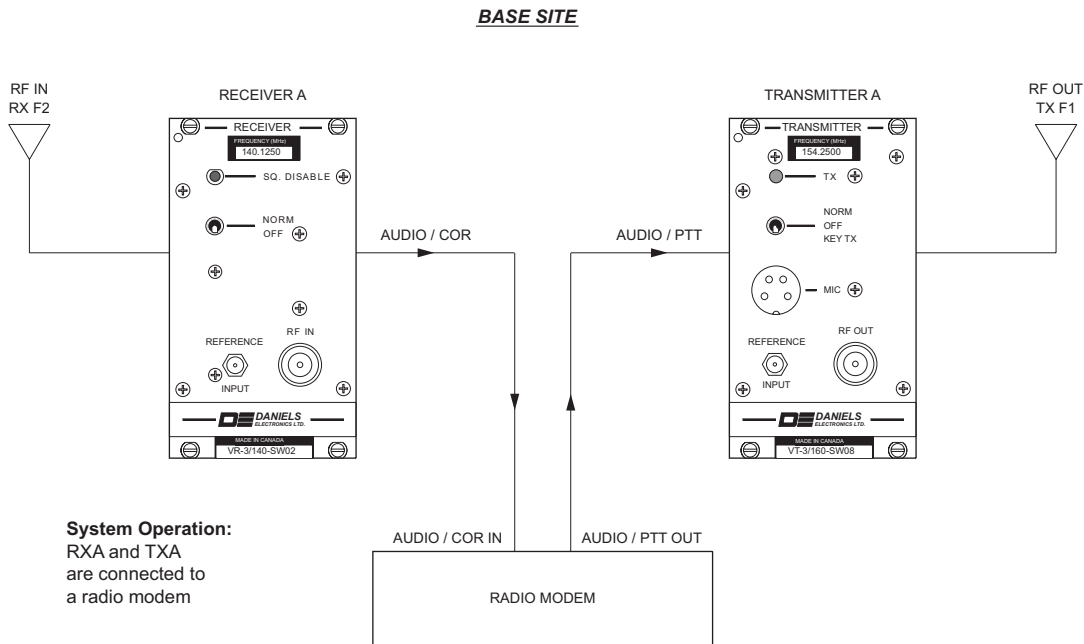
Internet  
e-mail: sales@danelec.com  
web: www.danelec.com

Data Only Radio Systems

AN1500 1200 / 2400 Baud FSK Radio Station

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System Block Diagram



Sample Block Diagram of a 1200 / 2400 Baud FSK Repeater Station

Required Equipment

- **xT-3/xxx-xxxxxx** VHF / UHF Transmitter Module
  - **xR-3/xxx-xxxxxx** VHF / UHF Receiver Module
  - **SR-39-1** Subrack
  - **SM-3-H0-014-00** System Monitor
  - **A-MIC-01** Microphone
  - **IMxx-xxxxxxx** Instruction manuals
  - **A-PNL-AUX96-3** Auxiliary 96 pin Connector
- \* Receiver and Transmitter are set for Flat Audio with No Compression

Optional Equipment

- **AMP-2/xxx-30-00** 30 Watt Power Amplifier
- **SM-3-H0-R1N-00** System Monitor with Single Antenna Relay
- **PSA-12A09-P0-00** AC Power Supply
- **PSD-15/08-P0-xx** DC to DC Power Supply