GENERAL DYNAMICS
Mission Systems

30-90 MHz Frequency Enhancement

For URC-200 (V2) Transceiver

Frequency Enhancement Tactical FM Band

Provides accessibility to the 30-90 MHz tactical FM Frequency Range

Lightweight and low cost communications for civilian and military frequencies

Remote control access for single and multiple operations

Frequency Enhancemen

General Dynamics' versatile URC-200 (V2) transceivers are the clear choice for vehicular, airborne, fixed-site and portable applications.

Line-of-Sight (LOS) radio operators can access the entire VHF/UHF communications band with the addition of the frequency expansion for the URC-200 (V2) multi-band, multi-mode radios.

The expansion provides access to the VHF tactical FM band between 30 and 90 MHz, and eliminates the need for additional radios, batteries, microphones, etc. One lightweight, low cost radio provides full communication access for commercial, civilian or military users.

With the addition of the tactical FM band, the URC-200 (V2) works beautifully with SINCGARS radios in the non-frequency hopping mode. The radio's frequency presets are fully compatible with the expansion option, providing complete accessibility to the 30-400 MHz VHF/UHF range, eliminating multiple-radio compatibility problems.

The frequency enhancement offers multi-band voice on both civilian and military frequencies, and data communications at rates up to 16 kb/s.

A remote-control capability (via RS-232 interface for single or multiple remote radio operations) and front panel-programmable frequencies make this system both versatile and easy to use.

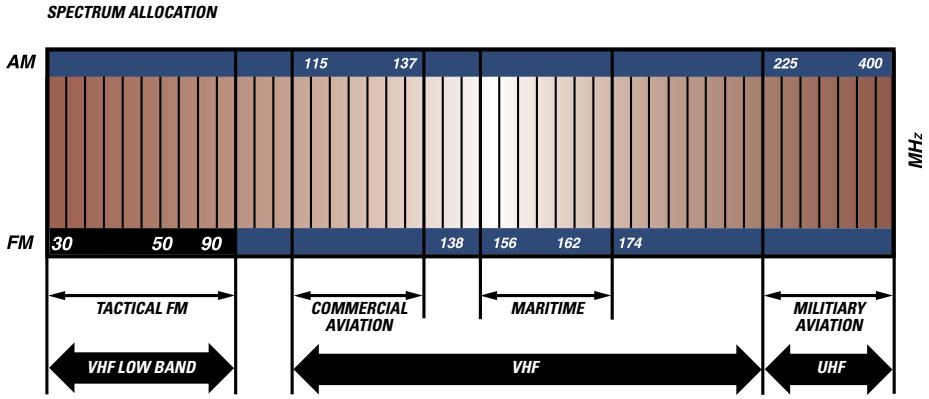
30-90 MHz Frequency Enhancement

Technical Specifications

Order Number: EBN-30 30-90 MHz Frequency Enhancement Option #01-P37200N002

Benefits/Features

- Greater Coverage
  - With the expanded capability, you can use the URC-200 (V2) in diverse applications – vehicular, airborne, fixed-site or portable.
- Low Cost
  - Adding the expansion to your order is easy and economical.
- High Reliability
  - Get multi-band voice on both civilian and military frequencies, as well as data communications at rates of up to 16 kb/s.
- Remote Control
  - The RS-232 interface allows for remote control access for both single and multiple remote operations.
- Easy to Use
  - All frequencies are easy to set and access via the front-panel control presets.



30 MHz to 90 MHz Frequency Enhancement Options

Features	
Frequency range:	30 to 90 MHz
Operational Modes:	Clear Voice Half Duplex
Tuning Increments:	12.5 and 25 kHz
Peak Deviation:	10kHz
Modulation:	Frequency Modulation
Frequency Stability:	± 1 PPM
Preset Channels:	10 transmit; 10 receive

Receiver Characteristics:	
Sensitivity:	
PT:	≤-110 dBm for 10 dB SINAD w/ 10 kHz Deviation @ 1 kHz
CT:	≤-105 dBm for BER 10^{-3} w/ 6.5 kHz Deviation @ 16 kbps
Selectivity:	-60 dB @ ± 100 kHz
Squelch:	150 Hz Tone Operated
Spurious Response:	≥ 80 dB
Image Response:	
30 to 41 MHz:	≥60 dB
41.0125 to 90 MHz	≥75 dB

Transmitter Characteristics:	
Output Power:	
HI:	5 Watts, -1 dB, +2 dB
MED:	1 Watt, -2 dB, +3 dB
LO:	150 mW, -2 dB, +3 dB
Spurious:	-80 dBc
Harmonics:	-57 dBc typical
Hum and Noise:	≥ 45 dB below a reference signal with 10 kHz Dev. Measured in a 300 to 3000 Hz bandwidth

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