

URC-200 with 30-90 MHz Frequency Enhancement

Frequency enhancement: tactical FM band.



Frequency enhancement for the URC-200:

General Dynamics' versatile, field-proven URC-200 transceiver is the clear choice – today and tomorrow – for vehicular, airborne, fixed-site or portable applications.

And now...your LOS radio operators can access the entire VHF-UHF communications band with the addition of the available-frequency expansion for the General Dynamics URC-200 series of AM-FM multi-band transceivers.

The expansion provides access to the VHF tactical FM band between 30 and 90 MHz, and virtually eliminates the need for additional radios, batteries, microphones, etc. Whether you're a commercial, civilian or military user, this lightweight, low-cost radio provides full communications access. One radio can handle all of your radio needs.

With the addition of the tactical FM band, the URC-200 works beautifully with SINCGARS radios in the non-frequency hopping mode. Plus, the URC-200's frequency presets are fully compatible with the expansion option, giving you complete accessibility to the 30-400MHz UHF/VHF range. That means no more multiple-radio compatibility problems.

Combining low cost and high reliability, it 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 and offsets make this system both versatile and easy to use.

GENERAL DYNAMICS
C4 Systems

URC-200 with 30-90 Frequency Enhancement

Benefits/Features

Why you should buy the URC-200 with 30-90 Frequency Enhancement:

- **Greater Coverage:**

With the expanded capability, you can use the URC-200 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.

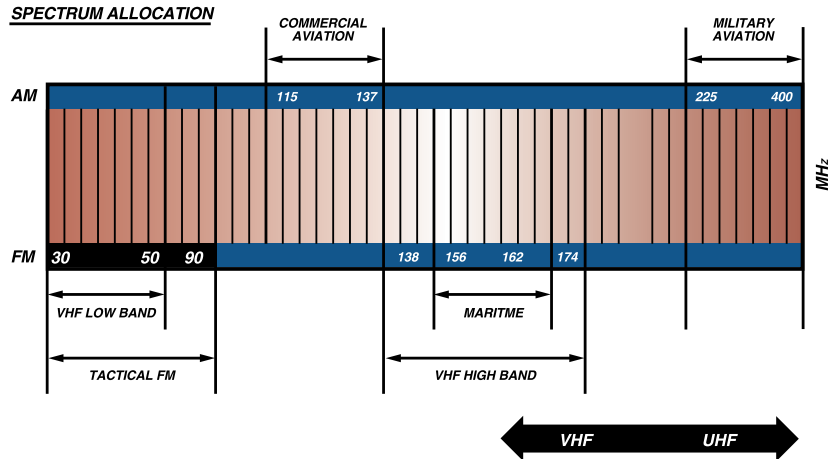
- **Remote Control:**

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.

Technical Specifications



30 MHz to 90 MHz Frequency Enhancement

Option Features

Frequency Range: 30 to 90 MHz

Operational Modes: Clear Voice
Half Duplex

Tuning Increments: 12.5 & 25 kHz

Peak Deviation: 10kHz

Modulation: Frequency
Modulation (FM)

Frequency Stability: ± 5 ppm

Preset Channels: 10

MTBF: 25,000 hours
(30 to 90 MHz
Option only)

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 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 & Noise: ≥ 45 dB below a
reference signal with
10 kHz Dev. Measured
in a 300 to 3000 Hz
bandwidth

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