DUAL BAND VHF - UHF GROUND TO AIR RADIO

PRC 530 / FRC 9530

Dual-band Radio

- V/UHF dual-band
- Voice relay and Ad-hoc networking
- Small, compact and usable design
- Secure voice and data

PRC 530 Handheld Radio

FRC 9530 Vehicular Radio

Overview

The dual-band radio works in V/UHF covering 108MHz to 174MHz and 225MHz to 400MHz. The Small Form Factor(SFF) portable radio easily fits in a pocket. Based on the SDR architecture design, the radio integrates the excellent tactical features, such as voice relay, Ad-hoc networking and FH, it can provide a stable communication in complex terrain. The radio also can be used in ground-to-air communication with AM mode.

Application Scenario

Ad-hoc Networking

The radio offers Ad-hoc networking capabilities including automatic multi-hop services for voice and data. VRN extends voice communication distance, resolves the communication issues in complex terrain, for example underground, jungle and trench.

Ground to Air Communication

The radio have ground-to-air mode, supports V/UHF dual-band frequency and AM voice.The radio combines in a small form factor secure and flexible architecture with excellent RF performance. It can be used to direct take off, landing and target guidance.

Specification

General	
Frequency Range	108-174MHz,225-400Mhz
Channels Spacing	25kHz
Net Preset	100 total/15 selectable from switch
Data Rate	≤48kbps
Data Interface	RS232/Ethernet
Weight	Handheld: ≤0.34kg(with battery) Vehicular: ≤18kg
Dimension (HXWXD, mm)	Handheld: 152×61×36.5(with battery) Vehicular: 19",2U
Waveforms and COMSEC	
Waveforms	CNR/VRN/PRN
Voice and Data Modes	AM/FM/GMSK/CPM
COMSEC	AES-256/Customized
ECCM	FH/FCS
Max. Hopping Rate	1,000hops/s
Networking capability	32-node, 6-hop

Transmitter	
Output Power	Handheld: FM: 0.5/2/3W; AM: 1.5W Vehicular: FM: 5/50/100W; AM: 50W
Receiver	
Sensitivity	≤-118dBm (SINAD=12dB, FM) ≤-106dBm (SINAD=10dB, AM)
Environmental	
Storage Temperature	-40℃~70℃
Operating Temperature	-30℃~60℃
Immersion	Handheld: 2m,4h
Shock & Vibration	MIL-STD-810G
Electromagnetic	MIL-STD-461F

Accessories

Steel Tape Antenna

2500mAh Battery

Charger

Power Adapter

All specifications are tested according to applicable standards and subject to change without notification due to continuous development.