

# PRC6809V MBITR VHF Combat Net Radio

Advanced Capabilities  
in a Rugged,  
Lightweight Package





# PRC6809V MBITR

In a ruggedized package weighing less than two pounds, the PRC6809V serves defense, allied, and coalition forces globally. Based on the combat-proven AN/PRC-148 MBITR, the PRC6809V provides unprecedented interoperability with existing military and commercial legacy radio systems. In addition, with software upgradeability, future operation with the next generation of communications equipment is ensured. The multi-processor architecture of the PRC6809V creates a truly software-based, handheld radio. The PRC-6909V can be utilized with the full set of system components for mounted and dismounted operations.



## Technical Specifications

### Key Features

- ▶ Contiguous 30–512 MHz Coverage  
30–225 MHz Public Safety  
(Optional Upgrades)  
30–512 MHz Multi-Band Ground to Air  
(Optional Upgrades)  
Military Grade ECCM  
AES/256-bit Encryption
- ▶ New Transceiver Design with Improved  
Receive/Transmit Co-site Performance
- ▶ Rechargeable Lithium-Ion 6.8 Ah
- ▶ Compliant with the Universal Battery  
Charger (UBC) Family of Tactical Chargers
- ▶ Cornerstone of a Complete  
Communications System for Mounted  
and Dismounted Operations

### Physical Parameters

**Length:** 8.44 inches (21.44 cm)  
**Width:** 2.63 inches (6.68 cm)  
**Depth:** 1.52 inches (3.86 cm)  
**Volume:** 33.7 cubic inches (552.8 cubic cm)  
**Weight:** 30.6 ounces (867.5 gm)

### Environmental Specifications

**Operating:** -30° to +60° C

**Storage:** -30° to +71° C

**Immersion:** 2M/20M

### Reliability

**MTBF:** > 30,000 hours field measured

**MTTR:** < 8 minutes

### Waveforms/Modes of Operation

Standard Features

- AM/FM
- Voice/Data
- Retransmission
- Situational Awareness

Optional Features

- DES Encryption
- AES Encryption
- Enhanced GPS
- Country Specific ECCM

### Transmit Output Power

0.1, 0.5, 1.0, 3.0 & 5.0 watts (FM)

1.0 & 5.0 watts (AM)

### Data

12 and 16 kbps synchronous

### Emergency Beacons

AM Swept tone beacon

### Programmable Channels

116 Memory Preset Channels

Menu Selectable Groups

Clear/Digital Voice Mode Selection on a  
Channel-by-Channel Basis

User Programmable from front panel menu,  
PC Programmer, and radio-to-radio cloning

Specifications are subject to change without notice.

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