



U.S. AIR FORCE

# FACTSHEET



## Personal Role Radio (PRR)

*“See First...Understand First...Act First”*

PRR is a tactically designed personal radio, providing increased situational awareness and enhanced upward reporting. The PRR enables C3I and generates a simplistic Common Operational Picture (COP).

### Features

- field tested, short range digital radio
- secure communications
- dual radio option, can be used in conjunction with military or civilian type radios
- lightweight / multiple headset options
- wireless push-to-talk (PTT)
- NBC compatible



#### Performance Summary

**Operating Frequency:** 2,400 - 2483 MHz (unrestricted)

**256 Channels available**

**Transmit Power:** 100 mW

**Modulation:** QPSK (Direct Sequence Spread Spectrum)

**Voice Coding CVSD**

**Battery:** 2 off AA primary cells provide typically 24 hour use

**Range:** 500 meters (Rural Terrain) transmission through up to three floors (Urban Terrain)

**Microphone:** Electret Noise Canceling

**Respirator:** NBC Compatible Ear Piece Custom Moulded design

**Compatibility:** VHF Combat Radio UHF Combat Radio HF Combat Radio Hands Free

**Operation:** 435 MHz wireless operation 128 Bit Unique Coding Simple Code Learn Mode

## Personal Role Radio (PRR)

PRR is a short range radio which operates independently of any infrastructures. Utilizing advanced wireless LAN technology and incorporating spread spectrum techniques at 2.4GHz, providing no frequency clearance requirement.

256 channel capability and a operational range in rural terrain of more than 500 meters. Works through 3 floors of urban terrain.

Dimensions: 3.5 x 5.5 inches. It operates on 2 standard AA batteries and these typically provide 24 hour use.



Dual PTT detachable press to talk assembly with two press to talk buttons plus lead to second radio.

Standard single PTT detachable press to talk assembly with one PTT button for PRR radio

## The Wireless Push-to-Talk (PTT) Switch

In addition to the main PTT switch assembly on the PRR radio body, a unique wireless PTT Switch is provided - it's about the size of a small car door opener. Using the strap provided, this can be attached to a personal weapon or any other equipment in use. When pressed, the wireless PTT switch remotely operates the PRR (by means of a short range radio assembly). The user therefore does not need to take his eyes off the target or his hands away from his weapon.



PTT allows hands-free communication, ensuring positive control and situational awareness.

## Single & Dual (PTT)

As standard, the PRR is supplied with a single PTT switch assembly which operates the PRR only. The user can replace the single PTT with a Dual PTT switch assembly. The radio lead from the Dual PTT switch assembly is connected to a secondary radio (Example AN/PRC-139, AN/PRC-148 or Motorola Saber). This option allows increased internal communication without interference to longer range command nets. A leader operates on the command net by pressing the second button and the unit is easily interchanged by the user.

## PRR User Options

The PRR easily adapts for more professional operations. Alternative ancillaries (example, right) can be connected to allow concealment of the headset.



## PRR FP Example

The PRR is invaluable to internal team and squad operations. Simple situational awareness is a key combat multiplier in all operations. The ability to see, understand and act first is critical at all levels of the mission.

