

- Delivers secure networked communications and situational awareness, improving mission effectiveness up to the Type 1 Secret level
- Increased RF range, battery life, and added visual HMI display built on the successful and field proven AN/PRC-154A Program of Record Rifleman Radio
- Enables self-forming, self-healing, ad hoc, simultaneous voice and data networks
- Provides software-defined capability for upgradeability and interoperability
- Streamlines procurement, logistics, maintenance and training, reducing life cycle cost
- Provides low-cost JTRS networking
- Integrates embedded encryption and GPS
- Minimizes soldier carry load

Networked Voice and Data Communications for Dismounted Soldiers



## AN/PRC-154B(V)1 Rifleman Radio





## AN/PRC-154B(V)1 Rifleman Radio

The AN/PRC-154B(V)1 Rifleman Radio is a low-cost, lightweight, body-worn radio that transmits voice and data simultaneously utilizing the Soldier Radio Waveform (SRW). It brings secure Secret and Below (SAB) squad-level communications to the soldier at the tactical edge of the battlefield network. The radio enables team members at the tactical level to track individual soldier position location information (PLI), providing a much-needed situational awareness capability. The AN/PRC-154B(V)1 Enhanced Rifleman Radio builds upon the widely fielded AN/PRC-154A to provide the next generation radio for the U.S. Army's Rifleman and Nett Warrior programs.

### FEATURES AND BENEFITS

- > Type 1 Secret and Below (SAB) secure communications
- > Continuous transmission of Position Location Information (PLI) enables situational awareness and blue force tracking
- > Human Machine Interface (HMI)
  - > Provides instant status to the user with a visual OLED display; adjustable brightness to be both readable in direct sunlight and night vision compatible
- > Audible Human Machine Interface (HMI).
  - > Allows the operator to maintain visual focus on the mission while operating the radio
- > Actively participates in one voice talk call group while simultaneously monitoring other talk groups
- > Software programmable/upgradeable
- > Operates with Talk-Group Select Switch, enabling simultaneous participation in multiple talk groups and use with Type 1 handheld for multiple security level operation
- > Small, ruggedized, lightweight chassis that is EMI/EMC compliant
- > Operates with standard USB and RS-232 devices for display use and radio control
- > Interoperable with all fielded AN/PRC-154A Rifleman Radios and accessories

### TECHNICAL SPECIFICATIONS

#### Frequency Range

- > UHF band 225 - 450 MHz
- > L-Band 1250 -1390 MHz, 1750 - 1850 MHz

#### Size

- > < 29 cu. in. with battery
- > 7.6" h x 2.5" w x 1.6" d

#### Weight

- > 1.7 lbs. with battery

#### Transmit Output Power

- > Up to 5 Watt
- > User selectable

#### Communication Range

- > >3 km (depending on environment)

#### Environmental Specifications

- > Operating Temperature: -40° to +55° C
- > Storage Temperature: -51° to +71° C
- > Immersion: 2m

#### GPS

- > Integral GPS and antenna
- > External SAASM interface

- > Non-U.S. Government sales are subject to U.S. Government approval.
- > Specifications are subject to change without notice.

#### Programmable Channels

- > 50 presets
- > 5 talk groups per preset

#### Waveforms/Modes of Operation

- > Soldier Radio Waveform (SRW)

#### JTRS Compliance

- > Yes

#### Interfaces Supported

- > 6-pin Headset/Speakermic (H-250)
- > Key loader (COMSEC key and TRANSEC key)
- > USB
- > RS-232
- > Software reprogramming and upgrades
- > TNC (50Ω mission antenna)
- > SMA (if external GPS antenna desired)
- > DAGR (external SAASM GPS)
- > Talk-Group Select Switch

#### Data Rate

- > SRW data modes supported

#### Operational Battery Life

- > >12 Hrs

#### Programmable COMSEC & TRANSEC

- > Non-CCI

### ACCESSORIES

- > 1600884-1, 7.2 Ah Li-Ion Rechargeable Battery
- > 4102715-501, Rifleman Battery Eliminator
- > 85326, Standard USB Cable
- > 4102681-502, GPS Antenna
- > 1600761-1, Rifleman USB Cable
- > 1600761-8, Rifleman Tablet USB Cable
- > 1600721-1, Multi-band Antenna
- > 1600775-2, Radio Pouch
- > 1600701-4, Single Bay Charger
- > AN/VRC-121, Vehicle Integrated Power Enhanced Rifleman (VIPER), Vehicle Amplifier System
- > 1600551-5, Tactical Headset
- > 1600469-11, Speakermic
- > 1600858-1, Talk Group Selector Switch
- > 1600886-1, Nett Warrior Data Adapter
- > 1600761-9, SAASM External GPS Cable

