

- Delivers secure networked communications and situational awareness, improving mission effectiveness up to the Type 1 Secret level
- First U.S. Army procured Type 1 Non-CCI Radio, eliminating the logistical burden typically associated with Type 1 Radios
- 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-154A Rifleman Radio



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The AN/PRC-154A 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-154A Rifleman Radio is a core component of the U.S. Army's Nett Warrior soldier modernization program.

FEATURES AND BENEFITS

- NSA certified for Type 1 Secret and Below (SAB) and Type 2 Sensitive But Unclassified (SBU) communications (expected 4th Quarter 2014)
- Continuous transmission of Position Location Information (PLI) enables situational awareness and blue force tracking
- Supports hands-free display and external computer interface
- User-friendly audible Human Machine Interface (HMI), e.g., audio indicators for preset, GPS position, and battery status
- 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 AN/PRC-154 Rifleman Radio accessories

TECHNICAL SPECIFICATIONS

Frequency Range

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

Size

- < 32 cu. in. with battery and antenna
- 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

- >2 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

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/Spearmic (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

- >9 Hrs

Programmable COMSEC & TRANSEC

- NSA certified for Secret and Below (expected 4th Quarter 2014)
- Non-CCI

ACCESSORIES

- 1600811-1, 5.8 Ah Li-Ion Rechargeable Battery
- 4102715-501, Rifleman Battery Eliminator
- 85326, Standard USB Cable
- 1600739-1, L-Band Antenna
- 1600638-1, UHF Antenna
- 85703-001, GPS Antenna
- 1600761-1, Rifleman USB Cable
- 1600761-3, Universal Cable
- 1600721-1, Multi-band Antenna
- 1600775-1, Radio Pouch
- 1600701-1, Single Bay Charger
- MA7141, Vehicle Integrated Power Enhanced Rifleman (VIPER)



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

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