

- Cost-effective vehicular mounted Soldier Radio Waveform (SRW) radio system
- Utilizes the operationally proven AN/PRC-154 Rifleman Family of Radios to ensure full interoperability with fielded SRW radios
- 20 Watt power amplifier extends range of SRW network in the UHF and L Bands
- Successful evaluation at the NIE 14.2, 15.1 and Army Expeditionary Warrior Experiments Spirals H, I and J.



AN/VRC-121(V)1 - VIPER

VEHICLE INTEGRATED POWER ENHANCED RIFLEMAN





AN/VRC-121(V)1 - VIPER

VEHICLE INTEGRATED POWER ENHANCED RIFLEMAN

The Vehicle Integrated Power Enhanced Rifleman (VIPER) is a vehicle mounted SRW radio designed to extend the operational range of the SRW network by providing 20 Watts of amplification. VIPER provides "Jerk and Run" access to an installed AN/PRC-154, AN/PRC-154A(V)1, or AN/PRC-154B(V)1 Rifleman Radio, providing operators with an instant transition between mounted and dismounted operations. VIPER is jointly developed by Thales and Ultralife.

FEATURES AND BENEFITS

- 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) i.e. audio indicators for preset, GPS position, and battery status
- Actively participates in one talk group while simultaneously monitoring two 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
- Operates with standard USB and RS-232 devices for display use and radio control
- Integrated USB and Ethernet connections provide standard interface with a variety of data devices
- Compatible with standard vehicular mounting trays and intercom systems
- Provides significant range extension to the SRW network

GENERAL INFORMATION

Compatible Accessories

- 1600811-1, 5.8 Ah Li-Ion Rechargeable Battery
- 1600761-1, Rifleman USB Cable
- 1600761-3, Universal Cable
- 1600721-1, Multi-band Antenna
- 1600775-1, Radio Pouch
- 1600701-1, Single Bay Charger
- AN/PRC-154, HMS SBU Rifleman Radio
- AN/PRC-154A(V)1, HMS SAB Rifleman Radio
- AN/PRC-154B(V)1, Enhanced SAB Rifleman Radio with Display
- 1600469-4, Speaker Mic
- SS-90017, H-250 Handset
- 1600811-1, Battery Rechargeable
- 1600845-1, Cable, GPS Interface
- LS/671, Vehicular Speaker

1100732-502, HMMWV Installation Kit

- 1100744-503, HMMWV Installation Plate
- 2100532-501, Ground Strap
- 3500916-503, HMMWV Power Cable

11007533-501, Stand-Alone Installation Kit

- 3500916-501, Power Cable
- 1100744-501, Mounting Plate Assembly
- 2100532-501, Ground Strap

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

TECHNICAL SPECIFICATIONS

Frequency Range

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

Mounting Options

- SINCGARS VAA: Upper or Lower Shelf
- SINCGARS Base Tray: Single or Double VIPER Installation
- "Mount-anywhere" stand alone mounting plate

Transmit Output Power

- 20 Watts in both L and UHF bands
- User selectable

Environmental Specifications

- Operating Temperature: -40° to +55° C
- Storage Temperature: -51° to +71° C
- Immersion:
 - VIPER: 1M
 - Handheld Radio: 2M

GPS

- Integral GPS and antenna
- External SAASM interface

Programmable Channels

- 50 presets
- 3 talk groups per preset

Waveforms/Modes of Operation

- Soldier Radio Waveform (SRW)

JTRS Compliance

- Yes

Interfaces Supported

- USB
- Ethernet
- SAASM (PLGR/DAGR) GPS Interface
- Vehicle Intercom System (VIC)
- Talk Selector Switch (TSS)

Data Rate

- SRW data modes supported

Programmable COMSEC & TRANSEC

- Type I or II, depending on the installed radio
- Secret and Below communications

EMI/EMC Compliance

- MIL-STD-461C

