

Joint Tactical Radio System HMS

AN/PRC-154 Rifleman Radio



Low-cost networking radio with embedded encryption and GPS

Brings the network to any warfighter on the extreme edge of the battlefield

Creates self-forming, ad hoc, voice and data networks in any battlefield scenario

Software-defined for upgradeability and interoperability

Streamlines procurement, logistics, maintenance and training; reduces life cycle cost

Common Core Radio Approach

Team General Dynamics uses a common core radio architecture, software and hardware design approach for all JTRS HMS products, including the SFF-C(V)1 Handheld Rifleman Radio. Special emphasis on SWAP-C (Size, Weight and Power-Cost) reduces both development time and cost, lightens the soldier load and maximizes battery life through efficient design and both aggressive and intelligent power management. Our common architecture and use of common core radio modules enables easy technology upgrades and reduces the logistics trail.

Overview

The Rifleman Radio delivers networking connectivity to the frontline soldier in a low-cost, lightweight, ruggedized, handheld device. The radio transmits voice and data simultaneously utilizing the SRW waveform. SFF-C(V)1 can be hand held or body worn, minimizing the warfighter's combat load while increasing functionality. Designed to bring secure (Type 2) inter-squad communications to any warfighter on the tactical edge of the battlefield, this handheld radio also enables Team and Squad Leaders to track and assess riflemen GPS locations and other vital situational information. This radio connects every rifleman to the combat network, enabling communications for better decisions, safer environments and mission success for the warfighters at the very edge of the battlefield.

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Technical Specifications –SFF-C(V)1 Handheld Radio

- Frequency Range
 - UHF band
- Size
 - < 39 cu. in.
- Communication Range
 - >2 km
- Weight
 - < 2.5 lbs. with battery and antenna
- Environmental Specifications
 - Operating Temperature: -32° to +55° C
 - Storage Temperature: -51° to +71° C
 - Immersion: 2m
- GPS
 - Integral GPS and antenna
- Programmable Channels
 - 16 presets
 - 2 talk groups per preset
- Waveforms/Modes of Operation
 - SRW
- JTRS Compliance
 - Yes
- Interfaces Supported
 - Standard Headset (H-250)
 - Ground Soldier Ensemble (GSE)
 - USB
 - RS-232
- Data Rate
 - SRW data modes supported
- Operational Battery life
 - >7.5 Hrs
- IP Talk Group Access
 - Dual PTT (talk group select)
- OTAR/OTAT
 - Yes/Yes
- Programmable COMSEC & TRANSEC
 - Yes – Type II



Qualified Suppliers

- General Dynamics C4 Systems
- Thales Communications, Inc.

Features and Benefits

- Continuous transmission of individual location information (ILI) enables situational awareness and blue force tracking
- Modular design supports easy technology upgrades
- Supports hands-free display and external computer interface
- User-friendly audible HMI (i.e. audio indicators for preset, GPS position, and battery status)
- Actively participates in one voice talk call group while simultaneously monitoring another talk group
- Software programmable/upgradeable
- Easy channel reprogramming and presets
- Operates with common stock AN/PRC-148 battery and utilizes associated charger
- Operates with Talk-Group Select Switch, enabling simultaneous participation in multiple talk groups or use with AN/PRC-148
- Small, ruggedized, lightweight chassis that is EMI/EMC compliant



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