



L3HARRIS™
FAST. FORWARD.

RF-7800V RADIO FAMILY

High-Speed, Long-Range Connectivity



MULTI-DOMAIN, RESILIENT NETWORKING

Command, mid-tier and edge forces gain unrivaled Situational Awareness and a shared Common Operational Picture with the VHF capabilities of the L3Harris RF-7800V Family of Radios. Forces exchange more ground-to-air and ground-to-ground voice and Position Location Information at faster speeds and over greater distances. The low-profile RF-7800V handheld and RF-7800V-V51X vehicular radio leverage high-speed networking waveforms for secure voice and data.

STAY RESILIENT IN CONTESTED AND CONGESTED ENVIRONMENTS

Fast-hop ECCM technologies overcome high noise and hostile jamming attempts while Free Channel Search dynamically selects the clearest frequency for communications.

SIMULTANEOUS NETWORK VOICE AND DATA

Self-forming, self-healing mesh network powers battlespace agility and supports up to 128 user nodes and multiple talk groups over large theaters of operation.

CONNECT ACROSS FORCES AND DOMAINS

A combat-proven portfolio of waveforms includes ground-to-air interoperability with L3Harris Falcon II® and Falcon III® radios and compatibility with Coalition forces.

SPEED DEPLOYMENT AND REDUCE COMPLEXITIES

Radios in the RF-7800V family have a shared architecture, providing significant cost and time savings. Their common interface cuts training time and reduces complexities, supporting standardized operation across radios. The same is true for technicians who use universal parts and service plans for the entire family.

GET FAST UPDATES TO NEW CAPABILITIES

The family's software-defined architecture allows for quick in-field downloads for emerging technologies.



User-Friendly Design

The RF-7800V family of radios is engineered to maximize tactical capabilities while reducing warfighter complexity and burden. Large, multilingual displays and embedded applications allow text and file transfer directly from the radio.

- > **Eliminate the need for additional devices:** USB and Ethernet/IP interfaces support compatibility with numerous applications
- > **Expand on-demand connectivity:** Wi-Fi®, Bluetooth® and Wireless Personal Area Network capabilities
- > **Advanced Situational Awareness:** WebUI applications provide Friendly Force Tracking and soft KDU remote control support
- > **Quickly adjust to tactical changes:** Over-The-Air Fill technologies support fast reprogramming of mission plans

RUGGEDIZED PERFORMANCE FOR SECURE COMBAT NET RADIO MISSIONS

The RF-7800V VHF handheld and RF-7800V-V51X vehicular radios are ideal for company and below voice and data communications. The radios and amplifier are ruggedized to MIL-STD 810G, with communications secured through L3Harris Citadel® and AES encryption.



RF-7800V-HH

VHF Networking Handheld

The L3Harris RF-7800V-HH combines the low-profile portability of a handheld with the power and long-range performance of a manpack. When deployed with the L3Harris 50-watt Power Amplifier, this handheld also plays a key role at the mid-tier level of any tactical network.

- > Resilient communications supported by high-rate Quicklook ECCM and Free Channel Search
- > Five-meter immersible dive mode supports safe underwater operations
- > 10 watts high-power + mode with continuous coverage from 30 to 108 MHz



RF-7800V-V51X

VHF Networking Vehicular Radio

The L3Harris RF-7800V-V51X 50-watt radio is engineered for space-constrained platforms requiring increased power for high-speed, long-range tactical communications.

- > Provides 50-watt VHF and 20-watt UHF power amplification
- > Full interoperability with the Falcon II and Falcon III family and RF-7800I Tactical Networking Intercom System
- > Simultaneous voice and data over narrowband and ECCM



RF-7800V-V50X

VHF Power Amplifier

The L3Harris RF-7800V-V50X provides 50 watts VHF high-power amplification for the RF-7800V-HH in vehicular and base station systems. This flexible solution enhances radio and link reliability for advanced narrowband waveforms.

- > Simultaneously runs multiple interfaces through direct connection to peripheral devices
- > “Hot jerk-and-run” feature ensures uninterrupted handheld communications
- > Full interoperability with the RF-7800I Tactical Networking Intercom System and includes VIC-3 interface for legacy intercom support



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RF-7800V Family Brochure

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