



L3HARRIS®
FAST. FORWARD.

INTELLIGENT, HIGH-CAPACITY, ALWAYS-ON CONNECTIVITY

Falcon® IV RF-9800W with CAMAN™
Cognitive Agile MANet Waveform





MOVE DATA ACROSS ECHELONS FASTER, EASIER AND MORE RESILIENTLY

As the pace and intensity of conflict accelerates, it is essential to connect platforms in every domain so critical data can be shared securely and resiliently in real time. Doing so has been difficult until now. Throughput and connection reliability was limited and, in some cases, RF signals could betray platform positions and compromise the mission.

The Falcon® IV RF-9800W overcomes those challenges so you can move massive amounts of data between kinetic platforms in real time with power, control and agility.



Stay connected across distributed headquarters



Eliminate user intervention at critical moments



Improve connection integrity



Count on secure, uninterrupted communications



Communicate
faster than
the threat
with secure,
continuous
coverage
across air,
land and sea.



Feature Innovations

COGNITIVE NETWORKING

The future of smart, high-capacity networking is here.

A powerful combination of robust hardware, CAMAN™—our Cognitive Agile MANet waveform—and intelligent software, the RF-9800W reduces stress and distraction at critical moments by automatically optimizing and reassigning frequencies without user inputs.

Intelligent Cognitive Networking tracks groups (clusters) and individual devices (nodes) as they move through each mission, autonomously adjusting frequencies and composition to provide connectivity where and when it's needed.

AUTONOMOUS SPECTRUM SENSING

Optimize connectivity and avoid interference—automatically.

The RF-9800W continually sweeps the spectrum on its own, then moves to the optimal frequency to avoid interference—ensuring secure, continuous coverage across domains that are congested, contested or both.

EXPANDED SPECTRUM

More available spectrum means additional throughput and flexibility.

Where most radios operate on a very narrow, preassigned section of the spectrum, the RF-9800W uses a larger continuous spectrum for assured connectivity.

That means more resilience to send and receive multiple video streams and other ISR without compromising lower-priority or voice communications.



GET FULL 360° COVERAGE ON LAND OR SEA

Electronically Beamed Smart Antenna option

Antenna elements are radio-controlled, supporting the dynamic selection of a focused beam for consistent high-throughput connectivity to one or multiple radios. This smart antenna is virtually plug and play—and MIL-STD ruggedized against shock, vibration, sand, dust, salt fog, immersion and humidity.

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To learn more about the RF-9800W, contact your L3Harris representative.

Falcon® IV RF-9800W

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