



**L3HARRIS™**  
FAST. FORWARD.

**TEST IT IN THE FIELD**  
**TRUST IT ON THE MISSION**

RF-7801 Test System

# L3HARRIS SYSTEMS: THE NEW STANDARD IN MISSION READINESS

In today's dynamic digital battlespace, tactical radios must be operational and ready for deployment at any time. To support this real-time mission readiness, field test and repair capabilities must keep pace with rapid changes in radio technology.

For example, wideband waveform radios require more sophisticated testing techniques to achieve trusted results than narrowband radios. In addition, modern radios are packed with many new features that must all be tested thoroughly, quickly and consistently. The testing of these newer systems alongside narrowband radios requires additional test hardware and software.

L3Harris, a global leader in tactical radio technology, has solved those challenges—and more—with the revolutionary RF-7801 tactical radio test platform. At last, users have direct control of radio maintenance, with a cost-effective system that has the functionality of multiple traditional test instruments in a dramatically reduced footprint.



## L3HARRIS RF-7801 TEST SYSTEM

CONFIGURABLE AND AUTOMATED



The L3Harris RF-7801 is the only system that allows users to conduct both narrowband and wideband radio testing today and be prepared to test the multi-channel radios of tomorrow.

The test system lowers costs and supports fast turnarounds by significantly reducing the components required for standard and customized testing.

This new platform integrates proven software with world-class hardware. It reflects decades of experience and customer feedback in developing test instrumentation for military and commercial communication products.

The RF-7801 is a completely integrated test solution from L3Harris, your trusted tactical radio provider. The system can also test radios from other suppliers.

# THE RF-7801 AT A GLANCE

## BENEFITS

- > Single platform tests narrowband and wideband radios
- > Automated testing delivers repeatable results, reduced test times and readily available data analysis
- > Incorporates the latest factory test techniques and meets future tactical radio evolution requirements
- > A second radio is not required for back-to-back testing
- > High reliability from years of customer field experience

## FEATURES

- > Available in an integrated station or transit case configuration
- > Supports unique wideband testing requirements associated with Software Defined Radios, such as 16QAM and BERT
- > Common platform architecture designed to support upgrades, add-ons and future instrumentation requirements

- > Very high performance, 90 MHz instantaneous bandwidth for frequency hop burst analysis
- > Excellent phase noise performance across a 2.6 GHz range of operation with fast hopping capability
- > Impressive real-time processing power and state-of-the-art data transport mechanisms
- > Ability to configure support for advanced communications systems such as JTRS, JTRS-compliant/SCA systems, and several emerging standards for 4th generation wireless communications
- > MicroATE option with built-in signal switching capabilities for fully automated testing
- > MIL-PRF-28800F Class 3 Packaging

## USER INTERFACE

- > Highly intuitive, 12.1-inch, high-resolution, touchscreen-based user interface provides access to all stimulus and measurement capabilities of the hardware and software

- > Functionality includes configuration testing automation programming, data analysis and archiving, calibration, system diagnostics and manual operations



*The transit case configuration provides mobility for field use while the bench installation (below) supports a permanent or semi-permanent test operation.*



The L3Harris RF-7801 platform offers the most capable, flexible and scalable synthetic test instrumentation architecture in the industry.



**FAST. FORWARD.**

Test it in the Field, Trust it on the Mission - RF-7801 Test System

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