

HARRIS[®]

assuredcommunications[™]

FALCON[®] II
Global Family
of Products



Outperforming the Competition.



The FALCON® II software-based radios meet critical communication requirements, better than any other radios of their kind.



The first family of **wireless** communications.

To succeed on the battlefield of the 21st Century, fighting forces require reliable, uncompromised communications. By applying its world-leading HF communications technology to new VHF, UHF, and multiband tactical digital radios, Harris Corporation is meeting that future demand — today.

Harris anticipated the need for interoperable communications equipment and was the first to introduce a complete family of ground-tactical radios. The key to this FALCON II family is a common, software-based, digital platform that meets the increasing need for integrated communications systems.

Common frequency bands in all FALCON II radios enable secure communications among the product family. That's a full spectrum of capability supporting a wide variety of military tactical operations for ground-to-ground, ground-to-air, and ground-to-satellite communications.

Whether your mission requires manpack, vehicular, or handheld radios, the FALCON II family delivers.

FALCON II:

Engineered to get your message through.



Complete family of **tactical** radios ■ Designed for **manpack, vehicular, base station,** and **handheld** use ■ Common **platform, common operation, common logistics** ■ Software-based, front-panel **programmable** ■ **Lowest** life-cycle **costs**



| RF-5800H |

The RF-5800H is like having two radios in one compact package. It is an advanced HF-SSB/VHF-FM radio that provides reliable tactical communications through enhanced secure voice and data performance, networking, and extended battery life. The transceiver's extended frequency range (to 60 MHz) provides secure digital voice and data in the VHF band in addition to the HF capability.

High-speed data rates, up to 9600 bps (HF), and selectable ARQ modes reduce on-the-air transmission time and enhance secure data transmissions for improved communications reliability and throughput. The combined robust digital voice and serial-tone-data modem operate over even the poorest communication channels.



| RF-5800V |

The high-speed RF-5800V, with rates up to 64 kbps, reduces on-the-air time and enables high-data-rate applications such as high resolution image transmissions. The radio's advanced data and waveform capabilities provide the secure voice and data demands of the digital battlefield. The robust data mode and 10-watt output extend the communications range beyond that of conventional radios. The Quicklook 1A and Quicklook 2 waveforms provide ECCM hop rates in excess of 300 hops per second.



| RF-5800V-HH |

The RF-5800V-HH is the handheld companion to the RF-5800V VHF transceiver that extends the performance of the FALCON II tactical radio family to the squad level. Standard features include Citadel digital encryption, Quicklook 1A ECCM frequency hopping, radio-to-radio fill, whisper operation, and fixed-frequency channel scanning. The radio provides full data capability in fixed-frequency and ECCM modes with automatic detection of incoming digital voice or data. The Quicklook 1A ECCM frequency hopping ensures reliable voice and data communications in a jammed environment.

- The FALCON II system offers users a
- wide choice of security options. Our
- proprietary Citadel® chip provides
- customer-unique security.



| RF-5800U |

The software reprogrammable RF-5800U supports continuous operation across the 90- to-420-MHz band with 20-watt FM and 10-watt AM transmit power. The RF-5800U supports both military and civilian ground-to-air communications in a single package and provides interoperability with Land Mobile Radio (LMR) systems. Voice communications are provided in 8.33- and 25-kHz channels to support the evolving air traffic control standards. Digital voice is supported at both 12 and 16 kbps for interoperability with ground-to-air and LMR systems.



| RF-5800U-HH |

The RF-5800U-HH is the handheld companion to the RF-5800U UHF transceiver that provides communications for military and civilian applications, including close-in air support, urban assault, and counter terrorism missions. The radio's small size and low-profile antenna are appropriate for rapid-deployment squad communications both indoor and outdoor. Standard features include Citadel digital encryption, Quicklook 1A ECCM frequency hopping, radio-to-radio fill, and 16 kbps data.



| RF-5800M |

The RF-5800M multiband radio is ideal for missions requiring ground-to-ground and ground-to-air communications in the VHF and UHF frequency bands. Essentially three radios in one, the FALCON II multiband is crucial: on vehicles, when multiple single band radios can be replaced or eliminated; on ships, where ship-to-shore and surface-to-air communications are required; and on the battlefield for multimission operations and crossband retransmission. Continuous on-the-air coverage from 30 MHz to 512 MHz allows full use of the frequency spectrum.



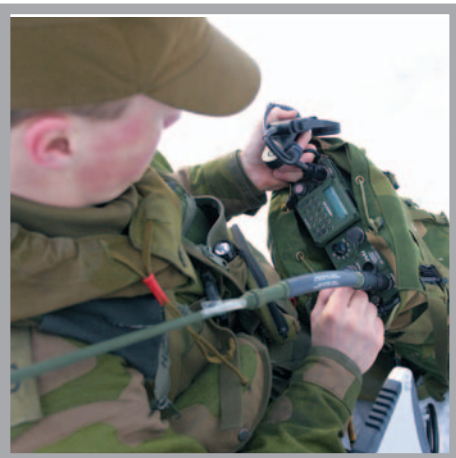
| RF-5800M-HH |

The RF-5800M-HH is the handheld companion to the RF-5800M multiband transceiver family that provides interoperable, multiband, multimission, secure voice and data communications to lower echelons and dismounted troops. With built-in Citadel digital encryption and Quicklook 1A frequency hopping, the RF-5800M-HH extends the performance of the FALCON II tactical family to the squad level with minimal burden to the soldier. Optional customer-unique algorithms can also be provided.



| RF-6010 |

The RF-6010 Tactical Network Access Hub, serving as a tactical router as well as a telephony interface, provides the link from FALCON II radios to other telecommunications and data networks. It is the centerpiece of the FALCON II Tactical Networking Systems and is designed to work with existing tactical and commercial phone switches, bringing valuable real-time information from the battlefield directly back to those who need it.



Common platform — uncommon performance.

Each member of the FALCON II family shares a common operation, appearance, and common accessories to enable proficient radio operation with minimal cross training for multiple radio types. What's more, Harris has engineered the FALCON II family to interoperate with a variety of other radios, allowing you to fully leverage your current investment.

By designing components that can be shared among the family of radios, troubleshooting and repair is greatly simplified. The result: greater ease of use, enhanced mission performance, and reduced life-cycle costs.

Setting the standard.

The compact and lightweight FALCON II HF, VHF, UHF, and multiband units deliver performance and capabilities never before available in tactical radios. The FALCON II system's data rates are the industry's highest. So are the ECCM frequency hopping rates and level of communications security. As a result, your message gets through, faster and farther, even in the presence of jamming.

Keep looking forward. We've got your back.

Strategy. Planning. Mission Execution. Defense forces leave nothing to chance. And, neither does Harris. Our uniquely designed radios are field tested and meet the most exacting combat requirements. When you buy Harris radios, you don't just buy a product. You buy a team. Our engineers, sales force, and customer support is second-to-none.

For every move you make on the field, Harris is right behind you.



RF Communications

Government

Broadcast

Microwave



Communications solutions for today and beyond

Harris RF Communications Division is a leading supplier of secure voice and data communications products, systems, and networks to military, government, and commercial organizations worldwide.

Harris Corporation is an international communications technology company focused on providing assured communications™ products, systems and services for government and commercial customers. The company's operating divisions serve markets for government communications, tactical radio, broadcast, and microwave systems. Harris provides systems and service to customers in more than 150 countries. Additional information about Harris Corporation is available at www.harris.com.