FALCON III® RF-7800W
HIGH CAPACITY LINE-OF-SIGHT RADIO
UNRIVALED DATA RATES
ON THE MOVE
THE BEST JUST GOT BETTER
LEADING THE INDUSTRY IN DATA DELIVERY AND PERFORMANCE

Breakthrough waveform enhancements to the Harris Falcon III® RF-7800W revolutionize the effectiveness and agility of today’s missions with new, unrivaled high-bandwidth mobile connectivity. With up to 428 Mbps Ethernet rates and long-range distances up to 160 kilometers, this High-Capacity Line-Of-Sight (HCLOS) radio eclipses all others. Now, with these RF-7800W capabilities, vehicular, maritime and airborne operations can get unmatched data performance on the move.

Adding mobility extends the RF-7800W’s range, and gives tactical edge forces and commanders the power to share real-time, high-definition ISR video and data. Critical communications are assured with the system’s ability to intelligently detect and switch to the strongest available signals for reliable, uninterrupted information flow.

**HARRIS FALCON III RF-7800W MULTI-MISSION HCLOS RADIO**

**KEY BENEFITS**

- Secure, robust, wireless broadband connectivity for fixed and mobile applications
- Unrivaled 428 Mbps Ethernet throughput and spectrum efficiency
- Long-range connectivity at distances greater than 160 km—over 200 km with Harris power amplifier
- Advanced, adaptive waveform technologies support high-speed networking for integrated mobile platforms

**HARRIS RF-7800W-PA500 EXTERNAL POWER AMPLIFIER**

**KEY BENEFITS**

- Significantly extends communications range and data throughput over long distances, or when using lower gain antennas
- Flexible for use during fixed, at-the-halt, or mobile operations
- 5 W average modular add-on for RF-7800W-OU500/470 radio systems
NEW GAME-CHANGING CAPABILITIES WITH A SOFTWARE UPGRADE

Mission success and troop safety rely on secure, reliable high-bandwidth data to adapt to rapidly changing scenarios. New RF-7800W capabilities enhance decision making and tactical agility as mobile maritime, airborne, vehicular and command operations maintain communications with maximum data throughput.

RF-7800W HCLOS MOBILITY

ROAMING
Similar to cellphone technology, RF-7800W roaming allows mobile platforms to seamlessly register and communicate with different base stations while traveling across various coverage areas. Auto hand-off technology ensures no dropped connections between base stations.

MULTI-HOP RELAY
Already the best performing hub-and-spoke wireless network system, the RF-7800W now extends Point-to-Multipoint HCLOS capabilities to non Line-Of-Sight scenarios. Forward deployed forces stay connected through a series of relays with stations on the network.

INTELLIGENT BACKGROUND SCANNING
The RF-7800W scans the RF spectrum, identifying optimum signals from nearby stations to support roaming and multi-hop. Enhanced Interference Mitigation automatically switches the system to the clearest available channel. Both technologies operate without user intervention or data flow interruption.

MARITIME AND VEHICULAR MULTI-HOP RELAY
Remotely deployed ground troops or ships outside base station’s Line-Of-Sight can connect by linking with another node on the network. This ship-to-ship or vehicle-to-vehicle capability significantly extends operational range as data is shared at greater distances and around obstacles.

MARITIME AND VEHICULAR ROAMING
Roaming manages continuous network links with base stations for vehicles and vessels moving through different coverage areas. This capability is enhanced by intelligent background scanning, which ensures network connectivity is optimized for best performance.
About Harris Corporation
Harris Corporation is a leading technology innovator, solving customers’ toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at harris.com.