

**HARRIS**<sup>®</sup>

*assuredcommunications*<sup>®</sup>

***RF-7800S***  
***Secure Personal Radio***



**Harris software defined radios are  
an extension of the soldiers who  
carry them into combat.**

***RF-7800S***  
***Secure Personal Radio***

The soldiers who use our radios are the inspiration for our design. Everything that goes into our tactical radios is meticulously engineered. Harris knows the most advanced technology can fall short if it can't perform on the battlefield. That's why we've encapsulated our radios in a rock-solid package. As a result, soldiers get secure voice and data capabilities with unparalleled performance, even in the harshest conditions.

Today's soldiers are called upon to perform increasingly complex missions—requiring up-to-the-minute intelligence and situational awareness as well as the ability to communicate reliably and securely. It is for these soldiers that Harris has developed the Secure Personal Radio—a digital, wireless communication device that delivers robust voice and relevant information in a rugged, soldier-friendly package.





### ***Easy to Use.***

User-friendly features like automatic voice conferencing and automatic voice activation (VOX) ensure that the soldier's attention is on the mission, not on the radio.

### ***Flexible.***

Four thousand possible channels and three selectable channel sizes ensure that no matter what or where, the Secure Personal Radio has it covered. The open standard eXtensible Markup Language (XML) customization file allows communications planning to be simple and stand-alone, or integrated into complex management systems.

### ***Modular and Upgradeable.***

Cost-effective soldier systems require a modular approach that delivers the right capability to the right soldier—and can evolve as new tactics are developed that exploit the new technology. The Secure Personal Radio is based on modularity in both software and hardware.

### ***System-Ready.***

Built-in GPS, dual push-to-talk, rebroadcast capability, and open standard interfaces like USB and Zigbee make the Secure Personal Radio easy to integrate with other tactical equipment, ultimately reducing the weight carried by the soldier.

### ***Secure.***

Built-in 256-bit digital encryption covers all voice and data transmissions—protecting sensitive command and situational information from eavesdroppers. Both the widely used Citadel® and AES algorithms are selectable by the mission planner.

### ***Robust.***

The Secure Personal Radio incorporates an advanced multipath-tolerant, wideband digital waveform, specifically developed for maximum range in both open and dense urban areas. The infrastructureless, self-forming network technology ensures that no critical-node vulnerability exists.

### ***High-Speed Data.***

The 256 kilobit-per-second wideband waveform ensures that sufficient capacity exists on the network to simultaneously carry multiple voice transmissions and data transmissions in a seamless manner.

**Lightweight. Secure.  
Connected.**

***RF-7800S  
Features***

***Headset  
Connection***

***Data / Fill  
Connection***

***Rechargeable  
Li-Ion Battery***

*(AA battery holder also available.)*

***Net Selector***

***GPS***

***Removable  
Antenna***

***Dual  
Push-to-Talk  
and Volume***

**HARRIS®**



## RF Commincations

Government

Broadcast

Wireless Transmission  
Network Solutions



## ***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 and information technology company serving government and commercial markets in more than 150 countries. Headquartered in Melbourne, Florida, the company has annual revenue of over \$4 billion and more than 15,000 employees — including more than 6,000 engineers and scientists. Harris is dedicated to developing best-in-class *assured communications*<sup>™</sup> products, systems, and services for global markets, including government communications, RF communications, broadcast communications, and wireless transmission network solutions. Additional information about Harris Corporation is available at [www.harris.com](http://www.harris.com).