

**RF-6750W**  
**WIRELESS GATEWAY**

*Automatically sends  
email messages over radio  
links and LANs using  
STANAG 5066 and  
STANAG 4538*

The RF-6750W Wireless Gateway software package connects to an Ethernet-TCP/IP local area network and operates as a "radio" mail server. It provides transparent delivery of email and files across multiple-transmission media, including HF/VHF/UHF radio, LANs, landline, microwave, or satellite and is compatible with email packages that run on a variety of platforms. The software integrates Harris-developed robust data transmission techniques with Commercial-Off-the-Shelf software for fast and reliable information transfer.

When installed on a Harris- or customer-provided PC, the RF-6750W forms a multi-media messaging system for transparent relay of email and files over media that are prone to errors. It also automatically relays messages if the first route is blocked.

For HF use, the software allows one of three protocols/waveforms to be used on the air. STANAG 5066 is the second-generation NATO interoperability standard. Use of this standard allows for compatibility with the HF Global Communications System (HFGCS), which manages the U.S. Air Force SCOPE Command Program. STANAG 4538 is the third-generation interoperability standard, and FED-STD-1052 is used for interoperability with legacy Harris wireless products.

Messages are generated and received by terminals that are connected to the LAN, WAN, or in remote locations not easily accessed by communication lines. The sender sends a normal email message or data, and the RF-6750W automatically routes the message over the proper radio or landline link and sends it to the final destination, adaptively selecting the best available channel.

Harris' wireless email solutions include a Windows®-based STANAG 5066 IP Client, the first of its kind in the industry. The ground-breaking IP Client is integrated with the RF-6750W and provides the ability to transfer IP data using radios that do not support IP natively.

The Wireless Gateway also includes Harris Imager, which has many of the capabilities of the industry-standard Harris Universal Imaging Transmission Software (HUIITS). It manipulates images directly from the application and enables transmission of high resolution digital images using the wireless email system. Harris Imager, which also translates between files in several formats, includes wavelet compression that provides superior compression to JPEG.

**STANAG 5066**  
**STANAG 4538**

# Specifications for the RF-6750W

Features	
	Seamlessly transmits email over HF/VHF/UHF radio, LAN, microwave, satellite, or landline media
	Supports STANAG 5066 and STANAG 4538 protocols
	STANAG 5066 IP Client enables IP communications using non-IP equipped radios
	Accommodates variety of cryptographic devices for enhanced security, including embedded and external cryptos
	Fully automated setup and tear-down of Automatic Link Establishment (ALE) links

General	
<b>Encryption</b>	In-line encryption using KG-84A, KG-84C, KY-99, KY-57, KIV-7, KY-58, KY-68, off-line, end-to-end (i.e. S/MIME, PGP), encryption embedded in radios
<b>Logging/Archiving</b>	Incoming and outgoing messages, radio and modem activities
<b>Message Management</b>	Automatic resend of messages over alternate paths and media, configurable transmission times, random retry period for message retry, message ganging to same location
<b>Image Processing</b>	Zoom, crop, rotate, color/brightness adjust, histogram equalization, image annotations, symbol overlays
<b>Image Formats</b>	Harris wavelet, JPEG, BMP, MAC, TIF, PNG

Minimum PC Requirements	
<b>CPU</b>	500 MHz for Windows 2000 1 GHz for Windows XP
<b>RAM</b>	256 MB for Windows 2000 512 MB for Windows XP
<b>Hard Disk</b>	80 GB
<b>Operating System</b>	Windows 2000 Professional (SP4) Windows XP Professional (SP2) Windows 2000 Server (SP3, SP4) Windows 2003 Server
<b>Mail Server</b>	Requires mail server on RF-6750W PC or on Local Area Network
<b>Other</b>	Asynchronous serial port (two ports with external modem) Ethernet adapter, PCI or PC card (PCMCIA) slot

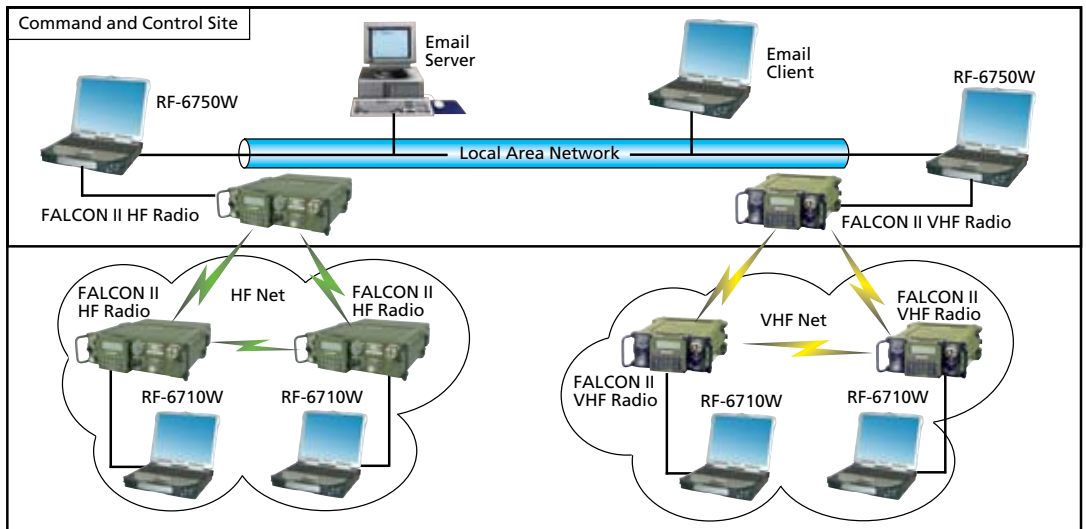
Harris Equipment Interface	
<b>Radios</b>	RF-5800H, AN/PRC-150C, RF-5800V, RF-5800V-HH, AN/PRC-117F, RF-5800M, RF-5800M-HH, AN/PRC-138, RF-3200E, RF-5022E, RF-5022, RF-7210 based
<b>HF Modems</b>	RF-5710, RF-5710A
<b>Other Harris Equipment</b>	RF-6010 Tactical Network Access Hub

Applicable Standards	
<b>Local Area Networking</b>	TCP/IP
<b>Automatic Link Establishment</b>	MIL-STD-188-141B, STANAG 4538
<b>HF Modem</b>	MIL-STD-188-110B, MIL-STD-188-110A, STANAG 4539, STANAG 4538
<b>HF Data Links</b>	STANAG 5066, STANAG 4538 (if embedded in radio), FED-STD-1052
<b>Mail Client/Server Interface</b>	SMTP, POP3
<b>Network Protocol</b>	IPv4
<b>Software Technology</b>	ActiveX, COM, MFC

Ordering Information	
<b>RF-6760W-XXEN</b>	CD Media
<b>Where XX is</b>	02 includes PCMCIA synchronous card 04 includes PCI synchronous card 03 for Asynchronous (RDP) radio interface (no synchronous card included)

Options	
<b>RF-3577</b>	Series of personal computers

## Sample Application



RF Communications | 1680 University Avenue | Rochester, NY USA 14610  
www.harris.com | 1-585-244-5830