HARRIS®

RF-6760W
WIRELESS MESSAGE TERMINAL

STANAG 5066 JITC CERTIFIED

Fully automated email messaging over STANAG 5066 and STANAG 4538 radio links

The RF-6760W Wireless Message Terminal provides transparent delivery of email, files, and images across multiple transmission media, including HF/VHF/UHF radio, LANs, landline, microwave, and satellite. The software package integrates Harris-developed robust data transmission techniques with Commercial-Off-the-Shelf software for fast and reliable information transfer. The RF-6760W can also connect to an Ethernet-TCP/IP local area network and operate as a wireless messaging gateway.

The RF-6760W user generates email messages using a SMTP/POP3-compliant mail client, such as Microsoft® Outlook® or Outlook Express. The RF-6760W automatically routes messages over the proper radio or landline link, sending them to the final destination by adaptively selecting the best available channel. It will also automatically relay messages through an alternate route if the first route is blocked.

For HF use, the software allows one of two protocols/waveforms to be used on the air. STANAG 5066 is the second generation NATO interoperability standard. Use of this standard ensures coalition interoperability. Use of the STANAG 5066 protocol also 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 that provides high performance ALE and data link protocols using Harris FALCON II® HF radios.

When a link is disconnected during the transfer of a message, the RF-6760W resume messaging feature will allow messages to resume, sending from the point of failure when the transfer is retried. This functionality is particularly useful when sending large messages under variable channel conditions.

The RF-6760W features a Windows-based STANAG 5066 IP Client, providing the ability to transfer IP data using radios that do not have an embedded IP capability. The IP Client is fully integrated with the Wireless Message Terminal for simple setup and operation.

Using the new pull messaging feature, RF-6760W users have the ability to configure and preview email message header information prior to downloading the entire message. Pull messaging offers control over what messages to download to the local terminal, and prevents transmission of non-critical messages.

The RF-6760W also includes Harris Imager, a digital imaging application that provides all of the image manipulation and compression features of the Harris Universal Image Transmission Software (HUITS).

Specifications for the RF-6760W

Features

Seamlessly transmits and receives 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 a variety of cryptographic devices for enhanced security

Fully automated setup and tear-down of Automatic Link Establishment (ALE) links using Harris FALCON II® radios (MIL-STD-188-141B and STANAG 4538)

Ability to configure and view message headers using pull messaging

Ability to configure and resume failed messages from the point of failure

General

Encryption	Off-line, end-to-end (i.e. S/MIME, PGP), encryption embedded in radios, in-line encryption using several external cryptos
Logging/Archiving	Incoming and outgoing messages, radio and modem activities
Message Management	Automatic resend of messages over alternate paths and media, configurable transmission times, random retry period for message retry, message ganging to same location, resume failed message transfer
Image Processing	Zoom, crop, rotate, color/brightness adjust, histogram equalization, image annotations, symbol overlays
Image Formats	Harris wavelet, JPEG, BMP, MAC, TIF, PNG

Minimum PC Requirements

CPU	500 MHz for Windows 2000 1 GHz for Windows XP
RAM	256 MB for Windows 2000 512 MB for Windows XP
Hard Disk	80 GB

Operating System	Windows XP Professional (SP2) Windows 2003 Server Windows 2000 Professional (SP4) Windows 2000 Advanced Server Windows XP Tablet Edition Windows Vista™
Mail Server	Gateway functionality requires SMTP/POP3 mail server on RF-6760W PC or on Local Area Network
Other	Asynchronous serial port (two ports with external modem), Ethernet adapter, PCI or PC card (PCM-CIA) slot

Harris Equipment Interface

Radios	AN/PRC-152(C), AN/PRC-150(C), RF-5800H, RF-5800V, RF-5800V-HH, RF-5800M, AN/PRC-117F, AN/PRC-117G, RF-5800M-HH
HF Modems	RF-5710, RF-5710A, RF-7800M
Other Harris Equipment	RF-6010 Tactical Network Access Hub

Applicable Standards

Local Area Networking	TCP/IP
Automatic Link Establishment	MIL-STD-188-141B, STANAG 4538
HF Modem	MIL-STD-188-110B, MIL-STD-188-110A, STANAG 4539, STANAG 4538
HF Data Links	STANAG 5066, STANAG 4538 (if embedded in radio), FED-STD-1052 (if embedded in radio)
LOS Data Links	STANAG 5066
Mail Client/Server Interface	SMTP, POP3

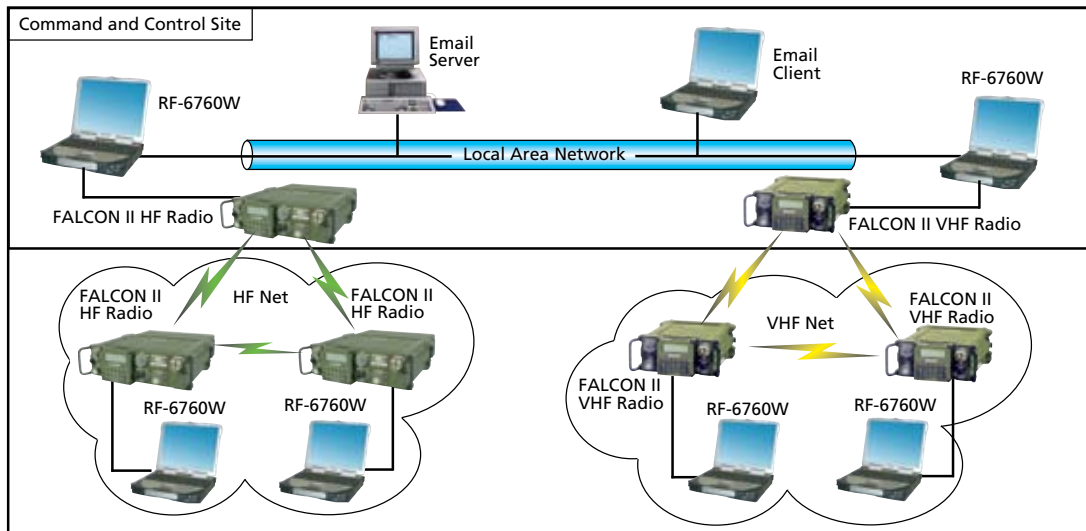## Ordering Information

RF-6760W-XXEN	CD Media
Where XX is	02 includes PCMCIA synchronous card 04 includes PCI synchronous card 03 for asynchronous radio interface (no synchronous card included)

Options

RF-3577	Series of Personal Computers

Sample Application

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