The RF-7800S Secure Personal Radio provides secure, digitized voice and data communications to every member of the team without distracting attention from the task at hand.

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.

A unique digital wireless network enables reliable communications even when backbone and trunk services are not available or out of range.

The network is designed to provide robust, long-range operation even in the most challenging urban terrain. The radio's ability to be customized allows it to meet any combination of communication requirements. An operator needs only to select the appropriate channel on the selector knob—everything else is automatic.

**SYSTEM-READY.**
Built-in GPS, dual push-to-talk, rebroadcast capability, and open standard interfaces like USB 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.

**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.

**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.

**Platoon Communication**
The RF-7800S Team Radio contains a 14-position channel selector that may be customized to meet any combination of communication requirements, including simultaneous voice and data. The radio is data-enabled and incorporates a built-in GPS receiver, allowing easy-to-use position tracking and messaging services. A standard USB data interface allows connection of PC or PDA devices for enhanced data applications. A short-range wireless accessory port is included and enables wireless remote control of the radio, including push-to-talk activation.

Smart, open interfaces such as USB, XML, and IEEE 802.15.4 ensure that the Secure Personal Radio integrates easily with other devices or data systems, allowing it to function as a standalone radio system or as a building block for highly capable network-centric dismounted communication systems.

All transmissions are secured by standard AES or customer-unique Citadel® digital encryption that protects tactically relevant command and situational information from eavesdroppers. Priority voice break-in ensures that a leader's critical orders are received even when the network is active.

**RF-7800S Product Line**
- Rechargeable Battery or AA Battery Holder
- Short Whip Antenna
- Dual PTT for operation on up to six talk-groups
- Priority voice Break-in
- Range extension for voice, data and situational awareness

**RF-7800S-T9 Product List**
- 12055-2102-01
- 12055-2105-01
- 12055-3250-01
- 10515-0360-00
- 10515-0345-400
**RF-7800S-VXXX**

**Vehicular Mountable Radio Configuration**

The RF-7800S-VXXX Vehicle Radio Kit provides secure digitized voice and data communications in a small, integrated package suitable for mounting in a variety of applications. Featuring the same industry-leading communication services offered by the RF-7800S Secure Personal Radio, the Vehicle Radio Kit adds physical and electrical interfaces to connect directly with the host platform.

The Vehicle Radio Kit includes a four-bolt mounting system, external removable GPS antenna, and DC power cable for connection to MIL-STD-1275 power systems. It features the same standard audio and data connectors as the RF-7800S-TR SPR and supports a full range of accessory items.

The RF-7800S-VXXX has the same features as the 7800S-TR radio, with 12/24 VDC power compatible with most vehicles. Size: 5.6 H x 4.25 W x 2 D in. (~143 H x 108 W x 51 D mm).

**Specifications:**
- **Input/output impedance:** 50 ohm
- **Frequency Range:** 350-450 MHz
- **Weight:** 24 oz. (~680 g)
- **Size:** 1.5 x 3.75 x 5 in. (~3 x 9 x 12 cm)
- **Sealed, watertight, and weather-resistant**
- **MIL-STD 810F and MIL-STD 461E certified**

**Product Type** | **Product Number**
--- | ---
RF-7800S-VXXX Package | 12055-1905-01
Auxiliary Kit including GPS Antenna, a terminated DC power cable and mounting hardware | 12055-0045-4100
Operator Card | 10515-0345-6600
Vehicle Installation Instruction Sheet | 10515-0373-0015
Optional
- 25-400 MHz Vehicle Antenna | RF-3184-AT320
- N Male to TNC Male 50 Ohm RF Coax Cable | 12020-0373-0015

**RF-7800S-PA020**

**20-Watt Power Amplifier for Vehicle Radio**

Designed specifically to meet the needs of the warfighter and weighing only 24 ounces (~680 grams), the RF-7800S-PA020 is the smallest and lightest power amplifier on the market. Providing reliable, 20-watt ALC-controlled amplification across the 350-450 MHz frequency range, the RF-7800S-PA020 is designed for seamless transition with the Secure Personal Radio, making it a tightly integrated solution for vehicular communications.

**Specifications:**
- **RF input:** 2 watts, nominal RF output: 20 watts
- **RX path:** insertion loss <1.5 dB, VSWR <2.1
- **Bypass Path insertion loss:** <1 dB
- **Power:** 18–36 VDC, <45 watts at transmit, <3.0 watts at receive
- **RF Connector (radio/antenna): BNC/TNC Female**
- **RF Connector (LAN/ethernet): BNC/75 Ohm Female**
- **Operating temperature:** -40˚ to +60˚ C
- **Finish/Color:** Black, anodized

**Product Type** | **Product Number**
--- | ---
RF-7800S-PA020 Package | 12055-0221-01
Shock Mount | 12055-0717-0415
DC-Cable Unterminated Power Cable, 10-36VDC | 12055-0202-01
N Male to TNC Male 50 Ohm RF Coax Cable | 12055-0791-0415

**RF-7800S to RF-7800M Audio and Data RETRANS**

**SYSTEM CONFIGURATIONS**

**DATA RETRANS**

- **12055-0714-A003** USB to Ethernet Cable Assembly
- **12055-0715-A003** RJ45 Male to RCA Female Cable Assembly
- **12043-0760-A006** Red Side Ethernet Cable Assembly
- **12043-0761-A006** Green Side Ethernet Cable Assembly

**Alternative Configurations to Data RETRANS:**
- **RF-3577-23EN Rugged Laptop**
  - Manual bridging or manual routing through network.
  - Tactical or Commercial Router.
  - Manual routing through network.

**RF-7800M-TR to Data RETRANS**

**MULTIBAND NETWORKING RADIO**

- **RF-7800S-V002**
- **RF-7800S to RF-7800M**
- **RF-7800M-MP**
- **RF-7800M-PA010**

**RF-7800S-V001 Vehicle Application**

- **RF-3577-23EN Rugged Laptop**
  - Manual bridging or manual routing through network.
  - Tactical or Commercial Router.
  - Manual routing through network.
**Antennas**

12055-2700-01

**UHF Whip Antenna**

This short, flexible style antenna covers the full 350 to 450 MHz frequency range of the RF-7800S Secure Personal Radio. The antenna provides maximum flexibility with a length of 212.5 mm (8.4 inches).

- **Specifications**
  - Length: < 21 cm (8.4 inches)
  - Frequency Range: 350-450 MHz
  - Impedance: 50 ohms
  - Gain: > -1 dB
  - VSWR: < 1.5:1 Typical
  - Power Input: 1 watt
  - Connector: Male SMA
  - Color: Black Matte

**RF-3038-H5002**

**Ranger Headset, no in-line PTT**

This splash-proof, behind-the-head style headset comes with a single left speaker with easy adjustment. The headset is flexible with a noise canceling left boom microphone. It is wind and dust proof for harsh environments.

- **Specifications**
  - Impedance: 150 ohms
  - Sensitivity: -38 dB
  - Response: 200 to 5000 Hz
  - Impedance: 2200 ohms
  - Sensitivity: -54 dB
  - Noise Canceling: Yes
  - Response: 100 Hz to 10 kHz

**RF-3042-H5001**

**Headset, Maverick, Dual in-line PTT**

This heavy duty, under-the-helmet headset comes with an in-line, rugged dual PTT. A soft ear cup is provided for a secure fit and it offers a mesh adjustable strap. The microphone is adjustable and can be worn on the left or right ear.

- **Speakers**
  - Impedance: 150 ohms @1 kHz
  - Sensitivity: -51 dB
  - Power Rating: 200 mW

- **Microphone**
  - Impedance: 4400 ohms nominal
  - Power Rating: 200 mW

- **PTT**
  - Contact Resistance: 50 ohms
  - PTT Life: 500,000 cycles

- **Weight**: 275 grams

- **Operational Temp**: -17 °C to -50 °C

- **Storage Temp**: -40 °C to 80 °C

- **Immersion**: 1 Meter

**RF-3039-H5001**

**Cleartrak**

This heavy duty headset comes equipped with certified noise canceling speaker and microphone. It has dual cloth covered ear seals for comfort and a push-to-talk switch located on the earcup. It comes standard with behind-the-head support.

- **Speakers**
  - Impedance: 150 ohms @1 kHz
  - Sensitivity: -48 dB
  - Impedance: 1.6K ohms
  - Sensitivity: -48 dB
  - Noise Reduction: 24 dB
  - Noise Canceling: 19 dB
  - Noise Canceling: 1.6K ohms
  - Sensitivity: 41 dB
  - Immersion: 1 Meter
The Modular Cobra headset system provides the user with personal choice and the flexibility to reconfigure the equipment to suit a specific type of mission. No tools are required and configuration changes can be made in a matter of seconds. The system components are fully ruggedized to withstand the extreme environments encountered in military operations, and human factors considerations have ensured optimum design for lightweight combined with long term comfort. The design also ensures full compatibility with helmets, weapons and other personal equipment. The headset is adjustable to accommodate the connection to a selected PTT, giving the ability to customize the headset with the exact PTT of your choice.

### Modular Cobra Headset System

**RF-3039-HS002 Heavy Duty Over-the-Head**

This heavy duty headset comes with dual cloth-covered ear seals and flexible, noise-canceling boom microphone with replaceable windscreen. The rotating boom mic fits both the left or right position and is equipped with behind-the-head support. The high performance, in-helmet solution offers two in-helmet speakers, microphone and adjustable push-to-talk. Its modular design allows for quick disconnects and cord coil at key points between components. Components are adjustable and can be worn or attached at several locations.

<table>
<thead>
<tr>
<th>Speaker Specifications</th>
<th>Impedance</th>
<th>300 ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>117 dB SPL</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Microphone Specifications</th>
<th>Impedance</th>
<th>16 K ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity</td>
<td>-48 dB</td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td>100 to 3000 Hz</td>
<td></td>
</tr>
</tbody>
</table>

**RF-3033-HS002 Throat Mic System w/ Single in-line PTT**

This highly sensitive communication system can pick up even a whisper. Its adjustable elastic strap has a comfortable fit around the neck. It offers push-to-talk options for use with protective clothing and special applications. It is adjustable for most helmet configurations.

<table>
<thead>
<tr>
<th>Speaker Specifications</th>
<th>Impedance</th>
<th>250 ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone Specifications</td>
<td>Sensitivity</td>
<td>-28 dB to -42 dB</td>
</tr>
</tbody>
</table>

**RF-3050-SM003 SPR Speaker Mic with Dual PTT**

This speaker Mic comes with a sealed housing to withstand MIL-STD 810-40 mph blowing rain. It has adjustable high/low volume control and provides a Fisher connector for optional headset connections. Equipped with a clothing spring clip, which can be positioned 360 degrees.

<table>
<thead>
<tr>
<th>Speaker Specifications</th>
<th>Sensitivity</th>
<th>-44 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response</td>
<td>200 to 5000 Hz</td>
<td></td>
</tr>
</tbody>
</table>

**RF-3034-HS001 Helmet Comm Kit with Single PTT**

This high performance, in-helmet solution offers two in-helmet speakers, microphone and adjustable push-to-talk. Its modular design allows for quick disconnects and cord coil at key points between components. Components are adjustable and can be worn or attached at several locations.

<table>
<thead>
<tr>
<th>Speaker Specifications</th>
<th>Impedance</th>
<th>270 ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microphone Specifications</td>
<td>Sensitivity</td>
<td>-30 dB</td>
</tr>
</tbody>
</table>

**RF-3036-HS002 Frontier 1431 Kit, with Dual in-line PTT**

This in-the-ear, lightweight headset provides clear radio communication, while providing hearing protection against impulse noise. The Frontier series of headsets provide the same level of situational awareness while wearing the headset as when not wearing the headset. The Frontier communication system is designed to be simple to use and comprises of an in-the-ear (ITE) headset with talk-through capability. Offered in both single and dual in-line push-to-talk, replaceable foam tips and standard black pouch. The RF-3036-HS002 is powered by the radio.

### Push-To-Talk Accessories

All in-line PTT's headsets come with a standard flat, one-button PTT. Many of the available headsets include a "pigtail" which will accommodate the connection to a selected PTT, giving the ability to customize the headset with the exact PTT of your choice.

<table>
<thead>
<tr>
<th>Product Numbers</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-3052-PT001</td>
<td>Ruggedized flat PTT with coil cord ( yp) PTT</td>
</tr>
<tr>
<td>RF-3052-PT002</td>
<td>Ring PTT</td>
</tr>
<tr>
<td>RF-3052-PT003</td>
<td>Barrel PTT</td>
</tr>
<tr>
<td>RF-3052-PT004</td>
<td>Flat PTT</td>
</tr>
<tr>
<td>RF-3052-PT005</td>
<td>90 mm PTT</td>
</tr>
</tbody>
</table>

### Communications Microphone

- **Type**: 4SP70
- **Current draw**: >1mA (typically 750μA)
- **Sensitivity**: Typically 80dB SPL @ 1kHz (drive 80dB SPL, 1kHz)
- **Frequency Response**: Can be provided if required
- **Impedance**: >50 ohm linear deviation at 5kHz from 74dB SPL, to 1kHz(80Ω)
- **Distortion**: >1% THD (200Hz to 4kHz) for 74dB SPL, swept input

### Communications Earphone

- **Type**: Moving iron
- **Impedance presented**: 100Ω (1kHz, 8% B.S.P.L)
- **Sensitivity**: Typically 80dBSPL, @ 1kHz (drive 80dB SPL)
- **Frequency Response**: Can be provided if required
- **Impedance**: >50 ohm linear deviation at 5kHz (input 50mV to 1V)
- **Distortion**: >1% THD (200Hz to 4kHz) for 100mV swept input

### Environment

- **Testing**: Outdoor and Indoor, Immersion to 2 meters, Salt, Contamination, Rain, Wheel Vehicle Transportation Bounce Test
Power Adapters and Chargers

The single-, six- and eight-bay battery chargers are compatible with the 12055-2105-01 Lithium-Ion handheld battery and have a typical charging time of five hours. Indicators identify the battery charge, conditioning, and fault status for each charging bay. A single AC charger is provided with U.S. and European power adapters, while the 8-bay battery charger comes with DC U.S. and European cords.

RF-5854-CH006
Six-Bay Battery Charger

Specifications:
- Input: 90 to 264 V AC, 47 to 63 Hz, North American and EU compatible plugs
- Dimensions (excluding power cord): length 9.2’’ (234 mm), width 4.0’’ (102 mm), height 2.4’’ (61 mm)
- Weight (excluding power cord): 7.2 lbs
- Operating Temp: 5°C to 60°C
- Material: Black ABS plastic, RoHS 2006 compliant

RF-5955-CH008
Eight-Bay Vehicular Battery Charger*

Specifications:
- Input: 9.0 to 19 V DC (12 V range), 19 to 36 V DC (24 V range)
- Dimensions: 17.2 x 17.7 x 5.2
- Weight: 22 lbs
- Operating Temp: 0°C to 60°C
- Material: Cast Aluminum

*Powered from DC input only.

12055-2105-01
Lithium-Ion Rechargeable High Capacity Battery

This rechargeable Lithium-Ion battery is used with the RF-78005 Secure Personal Radio.

Specifications:
- Voltage: 4.2 to 3.0 V (3.75 nominal)
- Capacity: 4.84 Ah, 28.3 Wh
- Type: Lithium-Ion
- Color: Black Matte
- Weight: < 500 g
- Gauge: Push-button and BQ2060 interface
- Connector: WW Fischer SF102 A014-32
- Dimensions: 76 x 78 x 28 mm, excluding connector
- Operating Temp: -20°C to 60°C
- Material: Grivory GV-5H 9915, 50% glass fiber reinforced thermoplastic
- Capacity: 4.8 Ah, 28.3 Wh
- Voltage: 4.2 to 3.0 V (3.75 nominal)

Ruggedized 3-Wire Surveillance Kit

RF-3065-CK002
SPR Covert Kit

The RF-3065-CK002 SPR Covert Kit is used with the RF-78005 Secure Personal Radio to provide secure communications in covert operational environments. The kit provides a concealable, wearable harness, which provides a pouch for the SPR radio and additional SPR lithium ion battery. The harness also comes equipped with looping, allowing the neck loop, push-to-talk, and wearable antenna cables to be securely attached. Additionally, the kit provides a wireless ear bud, which works with the neck loop to create the audio link to the radio. The entire system can be worn under a civilian or military uniform for maximum covert operation.

Features:
- Wearable Harness
- Wireless ear bud
- Neck Loop
- Body worn antenna

Covert Accessories

For more covert operations, the wireless ear receiver can be used with the RF-3041-SK004 Surveillance Kit headset and either the Flat Pack or Neck loop configuration.

RF-3043-WR001
Wireless Ear Receiver

Small lightweight unit which fits comfortably inside the ear. Includes carrying pouch, 15 wax filters, four battery pack and tool.

RF-3045-P001
Flat Pack Inductor

Creates inductive field that carries the transmission to the wireless ear receiver. Standard two-pin connector provides quick connection to the 3-wire surveillance kit.

RF-3047-NL001
High Efficiency Neck Loop

Creates inductive field that carries the transmission to the wireless ear receiver. Standard two-pin connector provides quick connection to the 3-wire surveillance kit.
Interface Cables
The RF-7800S supports connections to USB, serial and Ethernet devices. A selection of interface cables are provided which connect to the DAT interface on the radio. Standard cable length is 6 feet with other cable lengths available.

12055-0710-A006 RF-7800S Data/Fill Type A Cable
12055-0714-A003 RF-7800S USB-to-Ethernet Adapter
12055-0711-A006 RF-7800S Data/Fill Type Mini-B5 Cable
12055-0715-A003 RF-7800S USB-to-Serial DTE, DB9M
12055-0713-A006 RF-7800S USB-to-Serial DCE, DB9F
12055-0712-A006 RF-7800S Host mode USB Type A Receptacle

12055-0600-01 Black
12055-0600-02 Coyote Tan
12055-0600-03 Traditional Digital Camo
12055-0600-04 Desert Digital Camo
12055-0600-05 Green

Mating Connectors

Cable and PIN Type
21 AUD 220-0101-601 (Requires overmold)
22 SAT 220-0101-604 (Requires overmold)
22 Power 220-0101-602

Wireless Accessories

12055-0450-01 Wireless Dual PTT with Volume Control
The Wireless Push to Talk device offers IEEE 802.15.4 wireless technology ("802.15.4") and offers short range communications with low power consumption. Its functions include radio PTT1, PTT2, and Volume Up/Down control. The WPTT has a life of approximately 180 days. The device offers 128-bit AES encryption and is environmentally tested to MIL-STD-810F.

12055-3587-CP004 Harris PDA with Adapter
The RF-3587-CP004 provides even more functionality into the most powerful and full-featured rugged handheld computer available. This PDA offers a high-resolution, sunlight-visible 4.3" color TFT with LED backlight that shows graphics and maps in crisp detail. It has been integrated with the RF-7800S for easy operation with the SPR Utility Software.

Radio Programming

With the Ground Force Tracking GPS system, Squad or platoon leaders are able to track the location of their troops, displayed on customer-provided map overlays. The SUS can perform built-in radio test and ongoing reporting of radio status. The software enables the user to perform in-field modification of radio plan files, distribution and refill the radio. Programming kits are provided on a CD and flash memory device and contain a USB fail cable to enable USB connection to the Secure Personal Radio. The flash memory device can also be used for in-field distribution of plan files.

Communication Planning Application Provides:
- Accommodates radio planning for 25KHz, 50KHz and 1.2MHz nets
- Enables PTT assignment, encryption key generation and assignment
- Provides online help
- Includes simple default plans
- Exports keys from the RF-6550 KGA application
- Automatically fills radio with plans
- Supports Windows XP Professional, SP2, Windows Mobile 5.0 and Windows Mobile 6.0
- Utility Software conveys radio status
- Provides on-going, periodic BIT testing
- Visual indication of man down functionality
- Enables radio firmware upgrades

Specifications for PDA and Adapter

Processor 800 MHz Intel PXA320
RAM 128MB
Screen Size 480 x 640 pixel (VGA) 18 bit color TFT with LED backlight
Storage 1 GB Flash
Operating System Windows Mobile 6
Interfaces USB Host, RS-232 Serial
Power CR NiMH Rechargeable Battery Pack
Charging AC charger and 12 V vehicle charger
Adapter Dual Radio Cable

PDAs

12055-0450-01 Wireless Dual PTT with Volume Control
12055-3587-CP004 Harris PDA with Adapter

Radio Programming

12055-2910-03

With the Ground Force Tracking GPS system, Squad or platoon leaders are able to track the location of their troops, displayed on customer-provided map overlays. The SUS can perform built-in radio test and ongoing reporting of radio status. The software enables the user to perform in-field modification of radio plan files, distribution and refill the radio. Programming kits are provided on a CD and flash memory device and contain a USB fail cable to enable USB connection to the Secure Personal Radio. The flash memory device can also be used for in-field distribution of plan files.

Communication Planning Application Provides:
- Accommodates radio planning for 25KHz, 50KHz and 1.2MHz nets
- Enables PTT assignment, encryption key generation and assignment
- Provides online help
- Includes simple default plans
- Exports keys from the RF-6550 KGA application
- Automatically fills radio with plans
- Supports Windows XP Professional, SP2, Windows Mobile 5.0 and Windows Mobile 6.0
- Utility Software conveys radio status
- Provides on-going, periodic BIT testing
- Visual indication of man down functionality
- Enables radio firmware upgrades

Specifications for PDA and Adapter

Processor 800 MHz Intel PXA320
RAM 128MB
Screen Size 480 x 640 pixel (VGA) 18 bit color TFT with LED backlight
Storage 1 GB Flash
Operating System Windows Mobile 6
Interfaces USB Host, RS-232 Serial
Power CR NiMH Rechargeable Battery Pack
Charging AC charger and 12 V vehicle charger
Adapter Dual Radio Cable

PDAs

12055-0450-01 Wireless Dual PTT with Volume Control
12055-3587-CP004 Harris PDA with Adapter

Radio Programming

12055-2910-03
Manuals and Software

RF-7800S-PK001
RF-7800S Radio Programming Kit
This kit contains the items necessary to program the RF-7800S radio. Included in the kit is the Communications Planning Application software and the SPR Utility software for PC and PDA. Package is distributed on CD and Flash devices and includes, 1.) 12055-0710-4006 Full Size USB, 2.) Type A programming cable 3.) And instruction manual.

10515-0345-4100
RF-7800S Ops Card
The RF-7800S operations card contains information on easy operation of the radio. Basic functions are outlined in an easy-to-carry compact card.

10515-0345-4200
RF-7800S Operations Manual
The RF-7800S Operations Manual offers a complete guide into operation of the radio, software, fil, and net planning. A step-by-step guide will move you through complete setup and explain every function and detail of the radio.
Communications solutions for today and beyond.

Harris is an international communications and information technology company serving government, defense and commercial markets in more than 150 countries. Headquartered in Melbourne, Florida, the company has annual revenue of over $4 billion and 16,000 employees — including nearly 7,000 engineers and scientists. Harris is dedicated to developing best-in-class assured communications® products, systems, and services. Additional information about Harris Corporation is available at www.harris.com.