



assuredcommunications®

AN/PRC-152(C)
System Guide



System Components

The AN/PRC-152 multiband handheld provides the warfighter with the security and flexibility necessary in a multimission environment. With its JTRS-certified SCA operating environment and Sierra™ II programmable crypto, the AN/PRC-152 not only supports today's tactical radio requirements, but is easily upgradeable to future JTRS technology. In combination with the Handheld Power Amplifier (HPA), the AN/PRC-152 can be configured into a variety of vehicular, base station, and repeater configurations, providing high power solutions in addition to dismounted pull-and-go capabilities.



AN/PRC-152

- Type-1 SCA 30–512 MHz multiband handheld
- Sierra™ II programmable crypto
- SINGARS, VULOS, HAVEQUICK I/II, HPW, MIL-STD-188-181B SATCOM
- Optional internal GPS

Handheld Power Amplifier

- Power amplifier for AN/PRC-152
- 50 W VHF, optional 20 W UHF and 50 W SATCOM
- Integrated battery charger
- Pull-and-go capable
- Separate VHF and UHF antenna ports with automatic switching
- 20–32 Vdc input

SINGARS Vehicle Systems

AN/PRC-152 SINGARS vehicle systems are specifically designed to be integrated with the standard SINGARS shock mount (MT-6532/VRC) using the Harris SINGARS Interface Module (SIM). This allows for existing infrastructure to be upgraded with the latest AN/PRC-152 based technology. By utilizing the mounting developed for the AN/PRC-119 and related systems, AN/PRC-152 SINGARS vehicle systems are capable of integration with a wide variety of related peripherals.

Key features and options include:

- Seamless integration into the MT-6532/VRC mount
- Integrated speaker support for the LS-671 speaker and VIC-1 and VIC-3 intercoms
- Single and dual system options
- UHF PA options
- Available KDU remote control
- Systems available with or without AN/PRC-152(V)1(C) radios



SINGARS solutions like the AN/VRC-110 shown above provide high power 50 W vehicular communications with the flexibility for multiband and dismounted operations.

Part Number	Radios Included	Single or Dual	UHF PA
RF-300M-HV003	No	Single	0
RF-300M-HV004	No	Dual	0
RF-300M-HV006	No	Dual	1 of 2
RF-300M-HV007	No	Dual	2
RF-300M-HV101	Yes	Single	0
RF-300M-HV201	Yes	Dual	0
RF-300M-HV202	Yes	Dual	1 of 2
RF-300M-HV203	Yes	Dual	2

Single Vehicle Systems

Designed to support a variety of system scenarios and qualified to military specification requirements, the Harris Vehicular Interface Mount (VIM) allows for flexible single system installs of the AN/PRC-152 and Handheld Power Amplifier. Providing both easy interfacing to external power and speaker solutions and a shock mount, VIM-based installations provide a ruggedized platform for deployment in the most demanding of environments.

Key features and options include:

- Integrated shock mount
- Integrated power interface supporting 20–32 Vdc
- Integrated speaker support for the LS-671 speaker and VIC-1 and VIC-3 intercoms
- Operational temperature range of –30°C to +60°C
- Qualified to MIL-STD-810F
- Available UHF PA option
- Available KDU remote control



The RF-300M-HV 102 provides power amplification, battery charging, and a shock mount—all in a compact package.

Part Number	AN/PRC-152(V)1(C) Included	UHF PA
RF-300M-HV005	No	No
RF-300M-HV008	No	Yes
RF-300M-HV102	Yes	No
RF-300M-HV103	Yes	Yes

Base Station Repeater Systems

When fielded as a base station, the AN/PRC-152 provides the ideal combination of range, power, and pull-and-go versatility. Able to be run from a wide variety of military and civilian AC and DC power inputs, systems can be paired with ruggedized transit cases to allow quick and secure system installation and movement. Base station configurations can easily be configured into repeater setups with the addition of another radio and Handheld Power Amplifier.

Using a suite of battle proven system components, Harris can configure AN/PRC-152 based systems to fit a wide variety of needs.

Key features and options include:

- Flexible power inputs, with 12–32 Vdc and 115 or 230 Vac at 47–400 Hz inputs supported
- Integrated speaker support for the LS-671 speaker, with optional speakers available
- Optional ruggedized transit cases
- Optional UHF PA
- Available in repeater configurations



Transit case base station systems allow for portability in the most demanding of environments.

A small sample of available accessories is shown below.
Contact your Harris sales representative for further choices.



10075-1399 Lightweight Handset

The 10075-1399 is a high grade, lightweight military-grade handset for use with the Harris tactical radio systems. One handset is supplied with each Falcon® II and Falcon® III series transceiver systems. It is modified to provide improved operator RF protection. Cable has U-229B/U connector.



RF-3020-HS002 Lightweight Headset

The RF-3020-HS002 headset is a lightweight tactical headset consisting of a single earphone in an ear cup and a noise-cancelling microphone on an adjustable gooseneck boom. It is worn on the head using an adjustable cloth web and straps. The RF-3020-HS002 has two Push-to-Talk (PTT) switches: one PTT is a typically chest-mounted switch with clothing clip for attachment. The second PTT is a silent Push-to-Talk switch (sniper switch) typically worn on the palm. The RF-3020-HS002 is submersible to 1 meter and is designed to meet tactical environmental requirements. It has a standard U-229/329 audio connector compatible with the Falcon II and Falcon III families of radios.



RF-5980-SA001 Tactical Amplifier/Speaker

Amplifies transceiver audio output for vehicular and base-station applications. The speaker features include:

- Dual six-pin handset/headset connectors, individual handset/headset and speaker volume controls
- Individual handset/headset and speaker power switches
- Vehicular mounting bolt and bracket
- Ruggedized for operation in extreme environments per MIL-STD-810F



RF-5941-SM903 Multiband Antenna Mast System

The RF-5941-SM903 is a sectional fiberglass 9 m multiband 30 to 512 MHz antenna/mast system that may be assembled to create either a 7 m or 9 m mast with a 30 to 512 MHz multiband antenna. The system comes complete with a 30–512 MHz multiband antenna, guying, ground stakes, storage bag, coaxial cable on winder (BNC), and hammer.



The RF-390-AT001 Multiband Vehicular Whip Antenna

The RF-390-AT001 multiband vehicular whip antenna is a two-piece sectional vertical whip for use from 30 to 512 MHz. Exceptional bandwidth is obtained from distributive passive components along the antenna's length. The RF-390-AT001 has equivalent gain to other narrowband antennas. This antenna is the ideal choice for multiband radios because it reduces the vertical signature by replacing three narrowband antennas with a single antenna. The antenna comes with single or dual ports and can be paired with the RF-392-AT001 tripod base for fixed site installations.



KDU Remote Control

Available for any configuration of the Handheld Power Amplifier, the widely fielded Harris Keypad Display Unit (KDU) can be configured as a remote control. Using menu screens identical to the AN/PRC-152 radio, the remote control allows full control while in system configuration. The KDU remote control kit consists of a KDU, 6 ft cable, and cable adapter (shown attached to an RF-300M-HV008).

Special thanks to the U.S. Military Defense Websites for providing images of our troops used in this brochure.