

**RF-3162-AT001**  
**MULTIBAND SOLDIER**  
**ANTENNA (30-512 MHZ)**

*multimission*

*multiband*

*one radio*

The Harris RF-3162 is an omnidirectional, vertically polarized antenna designed for operation while directly attached to the operator's vest or rucksack. Using this antenna, a 1-kg 5 Watt handheld radio can achieve similar range performance as a traditional manpack radio with an integrated blade antenna. The RF-3162 has three parts: a multiband dipole antenna, a quick, reliable mounting assembly and a coaxial cable for radio connection. The operator has the option of folding the antenna (over the shoulder, for example) to keep it below helmet level. The flexible antenna body attaches to the soldiers' clothing or web gear and adjusts to body shape or movement to remain comfortable. A short coaxial cable connects the antenna to the radio, allowing the radio to be carried in a holster, pocket, or vest pouch.

The RF-3162 is ground-independent (center-fed), and can be easily deployed in a variety of configurations. Use of the elevation kit, included, allows the antenna to be hoisted into trees or up masts to increase antenna height and extend the line of sight communication range while the radio remains on the ground or with the operator.

The antenna is optimized for modern soldier data transmission and minimizes the effects of electromagnetic interference from a PDA or laptop computer. When used with high-performance radios such as the Harris FALCON II® series, the RF-3162 becomes part of an exceptionally capable yet lightweight secure digital soldier radio system.



## Specifications for the RF-3162

### Electrical

<b>Frequency Range</b>	30-512 MHz
<b>Polarization</b>	Vertical
<b>Gain</b>	-15 to -2 dBi from 30 to 108 MHz 0 to +2 dBi from 108 to 512 MHz
<b>Radiation Pattern</b>	Omni-directional

<b>VSWR</b>	<3.5:1
<b>RF Impedance</b>	50 ohms (nominal)
<b>Power</b>	10 Watt
<b>Matching</b>	Passive

### Mechanical

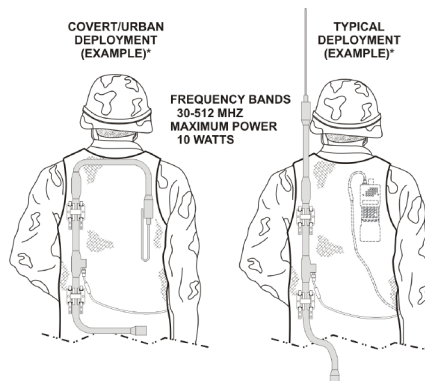
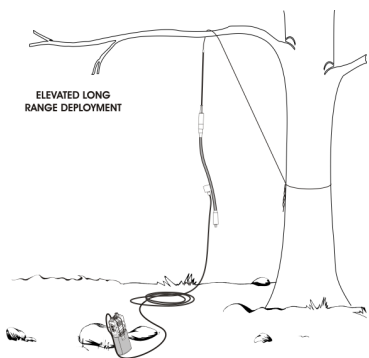
<b>Height</b>	1.7 m (5.8 ft)
<b>Weight</b>	<1.1 kg (2.5 lbs)
<b>Color</b>	Black
<b>Submersible</b>	20 meters

<b>Environmental</b>	MIL-STD-810F
<b>Diameter</b>	2.5 cm (1 in)
<b>RF Connection</b>	TNC (male)
<b>Elevation Kit</b>	5 M

### Features

<b>High Gain Antenna</b>	VHF Dipole, UHF Dipole
<b>Light Weight</b>	Lighter equipment load compared to manpack
<b>Multi-configuration</b>	Soldier-worn, convert, and remote/ Elevated mounting deployment

<b>Range improvement</b>	Outperforms both the "Rubber Duck" and Blade antenna on higher power MP radios
<b>Ergonomic Design</b>	"Goose neck" design conforms to operators' body



### Available in Standard Kits

**RF-5800M-DS001  
MB Dismounted Communication System**

**RF-5800M-DS101  
MB Dismounted Communication System With Internal GPS**

**Both Include:**

- RF-5800M-HH Handheld Radio
- 2 High Capacity Li-Ion Batteries
- RF-3162-AT001 MB Soldier Antenna
- Rubber Duck Antenna
- VHF Blade Antenna
- Accessory Bag

Specifications are subject to change without notice.