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# HARRIS SINGARS RT-1523

**BATTLE-PROVEN COMBAT  
COMMUNICATIONS FOR  
IN-VEHICLE OR DISMOUNTED  
CONFIGURATIONS**

## VHF RADIO

The Harris SINGARS RT-1523 Combat Net Radio equips warfighters with robust, time-tested capabilities on the move.

### KEY BENEFITS

World's most-fielded radio technology

Versatile use for troops on the move or at the halt

Configuration options for enhanced Situational Awareness and Position Location Information

Gen 3 Night Vision Goggle display compatibility

The Harris RT-1523 is a ruggedized system delivering highly secure voice and data communications for superior Command and Control (C2). With flexible frequency selections and security options available from the front panel, it allows local units to effectively manage multiple operations.

This SINGARS VHF radio system is engineered to meet versatile mission needs—as a manpack to soldiers at dismount, and on the move with the Vehicular Amplifier Adapter. In the mobile role, the radio works with the Embedded Tactical Data Router, and as a manpack

it features a standard Point-to-Point-Protocol interface. Both allow a C2 application to access the Tactical Internet.

The RT-1523 enhances warfighter safety and awareness with a Radio Based Combat Identification capability, which can perform in an interrogator or responder role on the ground or in the air. When combined with the available embedded Selective Availability Anti-spoofing Module (SAASM) GPS receiver option, it provides secure voice, data and position location reporting in a single system.

SPECIFICATIONS FOR: **HARRIS SINGGARS RT-1523 VHF RADIO**

**RT-1523 CONFIGURATIONS**



RT-1523 5 W manpack dismount configuration



RT-1523 in a VAA mount, vehicular 50 W long range/short range



RT-1523 in a VAA mount, 50 W dual long range (retransmit), plus 2nd power amp and retrans cable

**GENERAL**

RT Nomenclature	RF-1523
Frequency Range	30.000 – 87.975 MHz
Channel Spacing/Bandwidth	25 kHz
Net Presets	8 Single Channel/6 Frequency Hopping
GPS	Optional SAASM

**TRANSMITTER**

Power Output	1 mW, 100 mW, 5 W, 50 W (with power amplifier)
Antenna Outputs	1 (30.000-87.975 MHz)

**POWER**

Power Input	12-14 Volt Battery/+28 Vdc per MIL-STD-1275
Battery Types	BA-5590, BB-2590, and BB-590

**SECURITY**

Encryption	Internal Encryption Module
Encryption Modes	CT/PT

**MODES AND WAVEFORMS**

Narrowband Waveforms	SINGGARS
Voice and Data Modes	Single-channel and frequency hopping MIL-STD-188-220C operations with Tactical Internet X.21 packet data interface RS-232 data at 1200, 2400, 4800 and 9600 bps Synchronous data at 1200, 2400, 4800 and 16000 bps
Transmission Modes	FM (digital or analog)

**PHYSICAL**

Dimensions	3.4 H x 5.3 W x 10.15 D in (8.7 H x 13.4 W x 25.8 D cm)
Volume	181.42 in <sup>3</sup> (2973 cm <sup>3</sup> )
Weight	7.8 lbs (3.5 kg) with embedded battery

**ENVIRONMENTAL**

Shock and Vibration	MIL-STD-810
Immersion	MIL-STD-810 to 1 Meter
Temperature	-58° F to +160° F (-50° C to +71° C)
EMI/RFI	MIL-STD-461
Sand/Dust/Salt Fog/Rain	MIL-STD-810
Humidity	MIL-STD-810

See Harris Product Catalog for accessories

**About Harris Corporation**

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

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