

SINGARS RT-1523 VHF Radio

Battle-proven reliability supporting the digitization of the battlefield.



ITT

Engineered for life



ITT SINCGARS RT-1523 VHF Radio

The ITT SINCGARS RT-1523 provides the U.S. Armed Forces with the quality, durability and reliability of the most widely fielded Combat Net Radio in the world – ITT SINCGARS. At the core of the tactical communications system, RT-1523's flexibility supports both mounted and dismounted operations. Flexible frequency selection and security options are available from the front panel to allow the local unit to effectively manage multiple radio net operations.

The RT-1523 is designed to provide network data services in both mounted and dismounted configurations. In the mounted role the radio works with the ITT internet controller to provide robust mobile ad hoc network data services. As a manpack the radio provides a standard PPP interface allowing a C2 Application to access the Tactical Internet.

The RT-1523 incorporates an NSA approved Secure Software Programmability feature which enables ITT to enhance features and functions in response to the needs of our military forces.

When combined with the available embedded SAASM GPS Receiver option the RT-1523 offers the warfighter secure voice, IP data and GPS position reporting in a single system. External GPS interfaces are also provided to allow effective sharing of GPS data with other tactical systems.



RT-1523 in a VAA mount

Radio Based Combat Identification (RBCl) capability is also supported by the RT-1523. RBCl is key in preventing fratricide on the battlefield. Software within the radio allows it to perform the RBCl interrogator or responder role on the ground or in the air.

System Specification

Frequency Range	30-88 MHz
Channels	2320
Presets	8 single channel 6 Frequency Hopping (FH) presets
Transmit Power	1 mW, 100 mW, 5 W dismounted, 50 W mounted RFPA options
Operating Modes	Single Channel - Clear or Secure (STANAG 4204 compliant) Frequency Hopping - Clear or Secure (any combination of 2320 available channels) Over the Air Remote Fill Retransmit Operation (automatically switches between voice and data)
Data	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

Integrated GPS Option

Passive or Active Antennas	
Over the Air	Position Reporting and Reception
C2 applications	Local and receiver positions provided
Optional Control Display Unit (CDU)	Radio Remote Control Display of local position, net member positions Waypoint entry and management

Environmental

Operating Temperature	-50°C to +71°C
Testing	MIL-STD 810 Tracked and wheeled vibration, ballistic and drop shock, humidity, rain, dust, drop, loose cargo, salt fog, immersion to 1m (3'), altitude MIL-STD-461 EMI

Physical Characteristics

Size	8.7cm (3.4") high x 13.4cm (5.3") wide x 25.8cm (10.15") deep
Weight	3.5 Kg with embedded battery



Battery Operations

Battery Options	BA-5590, BB-2590, and BB-590 Internal holding battery insert for mounted operations using standard alkaline cells
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Features

Fill	Single point fill capability
GPS FanOut	Provides 6 GPS formats from a single source
Remote Control	Secure Remote control capability for up to 4 km distance
Vehicular Remote Control Unit (VRCU)	Allows remote operation of up to 2 mounted SINGGARS radios
CDU	Provides dismounted over the shoulder control of radio
Support	Comprehensive Built-in-Test capability Complete Operator and Maintainer training and technical documentation available Automated Field Test Set available for standardized Intermediate test functions Field Service representative are available to support system integration and installation at user facilities
Mean Time Between Failures	Production reliability demonstrated at over 5,000 hours



GPS FanOut
with RT-1523



Vehicle Remote
Control Unit (VRCU)



Control Display
Unit (CDU)



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Communications Systems

1919 West Cook Road

PO Box 3700

Fort Wayne, Indiana 46801-3700, USA

Phone: 260.451.6414

Fax: 260.451.6126

www.cs.itt.com