



ITT

SINGGARS RT-1523 with SideHat®

Introducing SideHat®, a software-defined module that adds new capability to Single Channel Ground and Airborne Radio System (SINGGARS).

For the first time ever, mounted and dismounted Soldiers can exchange vital data in real time, using SideHat®. A more accurate picture of the battlefield; fratricide avoidance; battle command on the move. These are a few of the benefits that enable troops to cut decision time and improve operational tempo.

SideHat® for SINGGARS... a new dimension in digital communication.



Engineered for life

Photos courtesy of the U.S. DoD and ITT Corporation.

SINGGARS RT-1523 with SideHat®

The SINGGARS RT-1523 is the latest in a series of system improvements for the world's most popular combat net radio - Single Channel Ground and Airborne Radio System (SINGGARS). The SINGGARS RT-1523 provides hooks that permit the connection of the SideHat®, an ultra high frequency (UHF) channel to SINGGARS with the powerful wideband networking waveforms such as Soldier Level Integrated Communications Environment (SLICE) and Soldier Radio Waveform (SRW). SRW is being developed by ITT and is destined for Joint Tactical Radio System (JTRS) programs. SINGGARS with SideHat® provides Warfighters a complete jam-resistant, frequency agile and ad hoc communications system in a compact package.

SideHat® is a small UHF software-defined waveform expansion module weighing less than four pounds. Both SINGGARS and UHF high speed networking operations can be conducted simultaneously. This gives mounted Soldiers immediate updates to command and control information like Blue Force Tracking and situational reports. Built to Software Communication Architecture 2.2, it is compatible with future JTRS devices. SideHat® is fully software reprogrammable, supporting future updates in the field, and provides the Army's platforms with a high speed communications channel to support dismounted Soldiers, vehicles, sensors, munitions and missiles.

Features

- Independent transmission security (TRANSEC) and Type 1 encryption available for both channels
- Front panel control of SINGGARS, SRW and EPLRS parameters and settings
- Comprehensive built-in-test isolates fault to individual module
- SINGGARS VHF remote control via 2-wire interface, programmable waveforms configuration via ethernet interface
- The RT-1523 radio transmitter (RT) retains full standard form factor capabilities and supports installation of waveform expansion module
- Options: embedded Selective Availability Anti-Spoofing Module (SAASM) Global Positioning Satellite (GPS) Module, Control Display Unit (for SA display and control)
- 2-Channel dismounted manpack

ITT Corporation Communications Systems

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Input Power

- Primary power +13V <1.5A/ channel average
- Standard batteries BA-5590, BB-2590, and BB-590

Function

- 30-88 MHz FM
- Single channel (SC) and frequency hopping (FH)
- 6 FH presets (including TRANSEC keys)
- 6 single channel presets plus manual and cue channels
- SDM, EDM and Packet (x.21)

Interface Characteristics

- Two H250 handsets and one shared vehicle intercom communications (VIC) connection
- MIL-188-114, MIL-188-220, and RS-232 data connection
- 2 wire remote, Central Processing Unit (CPU) and retransmit

Waveform Expansion Module (SideHat®)

- 225-450 MHz to support SRW and EPLRS waveforms
- CC mode up to 2.0 Mbps, electronic warfare (EW) mode up to 225 kbps
- One H250 handset, 1 shared and 1 dedicated VIC connection
- Ethernet and RS-232 data connections



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