



# ITT

## Spearhead

Provides the dismounted Soldier with secure voice/data communications and Situational Awareness in a small, lightweight, handheld radio.



*Engineered for life*

Photos courtesy of the U.S. D.O.D. and ITT Corporation.



## Spearhead

ITT's Spearhead portable handheld tactical radio provides dismounted Soldiers secure, frequency hopping voice and packet data with integrated GPS in a small, lightweight package.

Supporting full interoperability with the ITT SINCGARS RT-1702 communications system, the software-programmable advantage of Spearhead allows rapid deployment to specific Customers who require varying features with different functional and operational needs. Spearhead employs proven ITT transmission and encryption security. This provides any country the ability to enforce their own unique, secure communications.

Voice operations are supported using an internal speaker and microphone or through the use of a range of attached audio ancillaries including a variety of headsets and handsets.

IP-based data communications allow operation with a wide range of data ancillaries and provide full access to the Tactical Internet.

The integrated GPS function includes local position displays, transparent secure position reporting to all net members, and display of received net member's location. Position reports can also be automatically provided to attached data systems.



## System Specification

Frequency Range	30.000 to 87.975 MHz
Channels	2320
Preset Channels	8 for single channel operation
Frequency Hopping Presets	– Independently selectable operating bands available from front panel – Default orthogonal hopsets provided
Data Interface	RS-232, standard PPP for local data devices
Operations	MIL-STD-188-220C with the Tactical Internet

## Operating Modes

Single Channel	Clear or Secure (STANAG 4204 compliant)
Frequency Hopping (full band) Over The Air (OTA) Remote Fill	Clear or Secure

## GPS

Integrated Receiver	Standard internal 12 channel receiver
Passive or Active Antennas	Standard SMA interface +3.3Vdc power
Local Position Display	Standard
Net Member Position Display	– Grid coordinate – Relative position (range and azimuth from own location) – Embedded OTA position reporting – Transparent, secure position reporting to all net members – Position reports can be automatically provided to attached data systems

## Transmitter Characteristics

Power Output	100 mW, 1 W, 5 W to provide increased communications range and reliability
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## Environmental

Operating Temperature	-20°C to +60°C
Testing	MIL-STD-810F Humidity, rain, dust, drop, loose cargo, salt fog, immersion to 1 m (3'), altitude MIL-STD-461 EMI

## Security

Country-specific	Proven ITT transmission and encryption security
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## Physical Characteristics

Size	76 mm (3") wide x 51 mm (2.01") deep x 207 mm (8.15") high including battery
Weight	< 1 Kg (<2.2 lbs) including battery and antenna
Color	Two-tone in either green and black or tan and black
Display	Multi-language monochrome graphics display

## Accessories

Antenna	1/2* meter whip, 1 meter blade
Battery Pack	Li-Ion rechargeable*
Battery Charger	Single and multi-bay**
Clip	Rear, Belt spring
Pouch	MOLLE/ALICE-compatible
Handset	H-250
Headsets	Consult factory for options
Data/Headset Interface Cables	Consult factory for various configurations and length

\* Included in standard configuration

\*\* AC/DC, Vehicle, and Solar solutions available



1/2 and 1 meter Antennas



Headset



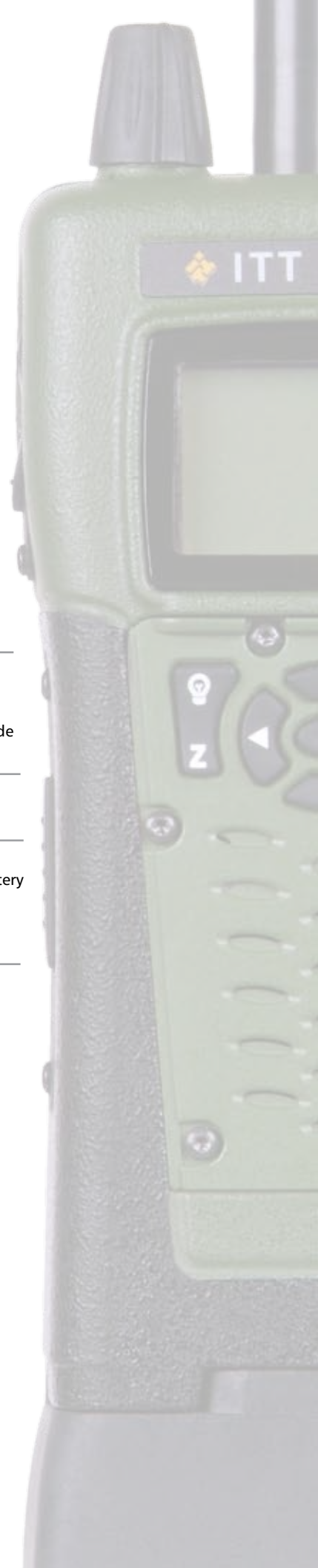
Handset



Single-bay battery charger



Multi-bay battery charger



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