



ITT

Communications Systems

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Soldier Radio

The communication solution for individual Soldiers, leaders, and applications in manned and unmanned vehicles and aircraft.



ITT

Engineered for life



Soldier Radio

ITT's Soldier Radio is an extremely capable Software Defined Radio (SDR) designed to multiply the operational capability of users. Capabilities range from simple push-to-talk voice for communication within a team to automatic Global Information Grid (GIG) connectivity supporting real time Situation Awareness information exchange. Our dual community-of-interest capability allows selected leaders to listen to the private communication of two teams with push-to-talk access with each one independently. Advanced features like tiered gateway provide communication between units on different frequencies. Although focused on the dismounted Soldier's mission, Soldier Radio is easily applied to manned and unmanned vehicles and aircraft using the integral mounting capability.

Operators have the advantage of simple controls to select preset mission information while planners retain access to full waveform configurability. Future engineered, the Soldier Radio incorporates the latest technology, extensive power management for longer mission life, and full programmability while maintaining compatibility with many existing ancillaries.

Soldier Radio supports narrowband and wideband waveforms with frequency coverage in the tactical VHF band (30 - 88 MHz), the UHF band (225 - 970 MHz), and L-Band (1650 - 1850 MHz) and supports an external power amplifier for range extension. Soldier Radio is fully programmable, designed to host JTRS waveforms, and has a programmable cryptographic subsystem.



Leader System with Laptop



Soldier System



Tiered Gateway Configuration

Performance

Frequency Range	UHF 225 - 450 MHz 450 - 970 MHz VHF 30 - 88 MHz L-Band 1650 - 1850 MHz
Channels	Up to 9,000 UHF frequency channels (25 kHz steps) Up to 40,000 frequency channels for all bands (25 kHz steps)
Programmable Tx Power	1 mW, 4 mW, 16 mW, 63 mW, 250 mW, 1 W, 2 W, 5 W
Input Power	12 - 16.8 v
Weight	< 2.2 lbs.
Size	15.2 cm H x 9.5 cm W x 4.8 cm D (5.99" H x 3.75" W x 1.9" D)

Features

Compliance	SCA 2.2.2 design
Voice	Combat Net Radio (CNR)
IPV4 compatible	
Automatic position reporting	
GPS	Internal receiver with L1 C/A code
Night vision goggle compatible	
Control	Local & remote control and monitoring via SNMP
Configuration	Local via keypad & rotary switch
Monitoring	Local via LCD
Wearable	MOLLE compatible design
Presets	10 mission preset
Adaptive Transmission Power	
Zeroize capable	
Relay capable	Tiered gateway capable
Simple Display	Keypad human/machine interface
Input Power Protection	



Interfaces

Ethernet	10BaseT RS-232 Serial USB 1.1 Client
Standard 6 pin audio connector	H250 compatible and configured for custom headset with dual PTT for two call groups
Antenna	50 Ohm TNC UHF/multiband 50 Ohm SMA GPS active
Rotary Function Switch	3 programmable positions
Display	Operator Liquid Crystal Display (LCD) with backlight
Keypad	Operator multifunction
Battery	Remote 2590/5590 configured, capable of attached battery
Power Amplifier Control	Capable

Operating Environment

Temperature	-32°C to +60°C
Humidity	5% - 95% non-condensing
Rain	1.8"/hr. and 40 mph
Immersion	2 m, 30 min.
Shock	3' drop
Withstand salt-fog and dust	

SRW 0.5 Characteristics

CC (Combat Communications) Mode	1.2 MHz Bandwidth
EW (Electronic Warfare) Mode	4.8 MHz Bandwidth
Range	3 km open field, 1 km urban