

RO®-X TACTICAL RADIO

**Beyond line-of-sight (BLOS) versatility
for mounted and dismounted users**

Uninterrupted communications for crucial situational awareness.

GLOBAL HANDHELD SATCOM CONNECTIVITY

The RO-X tactical radio, based on L3Harris AssuredReach™ technology, is a ruggedized handheld device that provides on-the-move (OTM), over-the-horizon (OTH) secure voice, data and position location information (PLI) to disadvantaged users.

The RO-X tactical radio uses the distributed tactical communications system (DTCS) provided by USSF's enhanced mobile satellite services (EMSS) office and L3Harris' enhanced short burst data (ESBD) capability to instantly communicate with other DTCS users anywhere in the world.

Similar to a secure "walkie-talkie," the RO-X radio does not require ground infrastructure. The talker can reach thousands of other authorized users anywhere in the world with line of sight to the sky.

Communication occurs over a distribution of secure nets. An individual RO-X radio may be a registered member of up to ten nets.

Secure voice communication is available to any registered DTCS radio, including other RO-X tactical radios, radios equipped with the DTCS mission module, as well as the more than 15,000 currently fielded RO tactical radios.

Equipped with an embedded GPS receiver, each RO-X tactical radio transmits and receives voice, data and GPS over a single antenna. Encrypted PLI is transmitted with flexible configurable options to meet operational requirements.

The RO-X provides integrated USB, Wi-Fi and Bluetooth (future) capability that gives users the flexibility to easily interface with a variety of standard accessories. This flexibility also provides the user the ability to use an Android device as a wireless speaker mic when line of sight to the sky is not available to the RO-X. This is achieved through the use of a simple Android app. The RO-X has an available ATAK plugin for blue force tracking, chat, and 9-line over the DTCS-Global Services (GS) network.



BENEFITS

- > True global push-to-talk (PTT) capability allows worldwide connection at all times
- > Crystal clear voice while stationary and on the move (OTM) requires less transmissions
- > Small and lightweight design lessens load on personnel in the field
- > Compatible with other DTCS devices such as the RO tactical radio and the DTCS mission module
- > Dismounted and vehicle mount compatibility provides uninterrupted communications in the field
- > Integrated messaging and global positioning system for improved efficiency



SPECIFICATIONS

General

Frequency Range	1,616.5 to 1,626.5 MHz (L Band) 1,575 MHz (GPS)
Channel Spacing/Bandwidth	41.667 kHz
Net Presets	10 channels, programmable
GPS	Commercial L1
Frequency Stability	0.5 ppm
Transmitter/Receiver	
Power Output	Up to 38 dBm
Sensitivity	-119 dBm
Adjacent Channel Rejection	-33 dBc
Power	
Battery	PRC-152A or PRC-163 batteries
Security	
Encryption	FIPS 140-3 Level 2 (pending)
Available Modes/Waveforms	
Services	DTCS-Global Services (DTCS-GS) and ESBD
Wi-Fi	Wireless access point
Bluetooth	Future
Physical	
Dimensions	6.5 H x 3.0 W x 1.77 D in (16.5 H x 7.6 W x 4.5 D cm) without battery 9.76 H x 3.0 W x 1.77 D in (24.8 H x 7.6 W x 4.5 D cm) with battery
Volume	21 cu in (344 cu cm) without battery 33.8 cu in (554 cu cm) with battery
Weight	17.8 oz (505 g) without battery 32.3 oz (915 g) with battery
Color/Finish	Black/Cerakote®
Environmental	
Durability	IP67, MIL-STD-810G
Temperature Range	-22°F to +140°F (-30°C to +60°C)
Interfaces	
Iridium/GPS Antenna Port	50-ohm TNC
Wi-Fi Antenna Port	SMA
USB Interface	Yes
Design	
User Display	320 x 178 pixels, 1.8 inch transreflective LCD, 16-bit color with backlight
Keypad	Full keypad

STANDARD KIT

RO-X Tactical Radio Full Kit	PN 8962256G1
RO-X Tactical Radio	PN 8963126G1
L-Band Iridium Antenna	PN 8960263-1
Wi-Fi Antenna	PN 8962884-1



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1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)