

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 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 fifteen 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 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.



BENEFITS

- > True global push-to-talk (PTT) allows worldwide connection at all times
- > Crystal clear voice while stationary and on-the-move (OTM) requires less transmissions
- > Small and light-weight 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



GENERAL	
Frequency range	1616.5 to 1626.5MHz (L Band) 1575 MHz (GPS)
Channel spacing/bandwidth	41.667 kHz
Net presets	15 channels, Programmable
GPS	Commercial L1
Frequency stability	0.5 ppm
TRANSMITTER/RECEIVER	
Power output	Up to 38dBm
Sensitivity	-119dBm
Adjacent channel rejection	-33dBc
POWER	
Battery	PRC-152A or PRC-163 batteries
SECURITY	
Encryption	FIPS 140-3 Level 2 (pending)
AVAILABLE MODES/WAVEFORMS	
Services	Distributed Tactical Communications System – Phase 2 and Global Services
Wi-Fi	TBD
Bluetooth	TBD
PHYSICAL	
Dimensions	W/D/H: 3.0 in (7.6 cm), 1.75 in (4.5 cm), 9.8 in (24.9 cm) with battery
Volume	17 cu inches (278 cu centimeters)
Weight	36 ounces
Color/Finish	Black
ENVIRONMENTAL	
Durability	IP67, MIL-STD-810G
Temperature range	-30C to +60C (-22F to +140F)
INTERFACES	
Iridium/GPS antenna port	50-ohm TNC
WIFI antenna port	SMA
USB interface	Yes
STANDARD KIT	
PN 8962256G1	RO-X tactical radio kit, which includes:
PN 8963126G1	RO-X tactical radio
PN 8960263-1	L-band Iridium antenna
PN 8962884-1	Wi-Fi antenna
DESIGN	
User display	320 x 178 pixels, 1.8 inch transfective LCD, 16-bit color with backlight
Keypad	Full keypad



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1025 W. NASA Boulevard
Melbourne, FL 32919