

TACTICAL NETWORK ROVER® 2e KIT

Delivering wideband reliable and secure communications to the tactical edge

The L3Harris TACTICAL NETWORK ROVER 2e (TNR 2e) handheld transceiver supports both analog and digital links and bidirectional data link capability to the most disadvantaged users—dismounted ground combat troops. This low-SWaP digital radio combines video downlink receiver functionality with broadband IP networking capability. The TNR 2e also supports Cryptographic Core Modernization.

The TNR 2e leverages the existing ROVER communications infrastructure for air-to-ground interoperability and ground-to-air networking within a Net-T network. This network access allows for Digitally Aided Close Air Support (DaCAS), ground force position sharing, chat and large file transfer capabilities to provide unprecedented Situational Awareness to dismounted ground troops.



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Unprecedented Situational Awareness to dismounted ground troops

CONFIGURABLE AND FLEXIBLE

The TNR 2e is our most flexible handheld platform—rapidly configurable to support all dismounted mission types.

- > Auto configuration via “ROVER code”
- > Keypad selectable presets
- > Comprehensive configuration available via USSOCOM designed Graphical User Interface (GUI)

FUTURE CAPABILITY AVAILABLE TODAY

Updated high performance hardware and software.

- > Expanded UHF, L- and S-Band coverage
- > Next generation Type 1 CCM architecture
- > Software defined radio allows for field upgrades for future waveforms

SPECIFICATIONS

Video (decode only)

- > H.261
- > H.264
- > MPEG-2
- > MPEG-4
- > MJPEG
- > Analog NTSC/RS-170

Encryption and Decryption

- > Cryptographic Core Modernization
- > AES

Compatible Displays

- > Head-mounted displays
- > Wrist-mounted displays
- > PCs
- > Android™-compatible displays

Software-Programmable Receiver

- > User on-screen display:
 - Pre-mission configurations
 - Signal and waveform search

- > Ease of use
 - Frequency-only configuration
 - Quick key “speed dial”
 - Web GUI control
 - Built-in frequency analyzer

External Interfaces

- > 100 Base-T Ethernet
- > USB 2.0
- > Analog NTSC/RS-170
- > ≥ 28dBm RF output at L- and S-Bands
- > RS-232 GPS (NMEA)
- > RS-485 AES SKL
- > VOIP audio
- > Crypto fill connector
 - AN/PRC-148 battery
 - AN/PRC-152 battery

Transceiver SWaP (without battery):

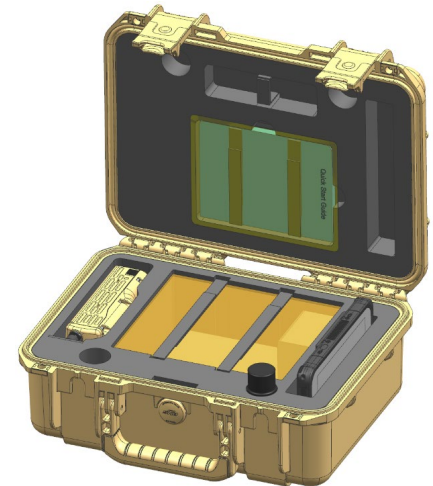
- > Size: 2.3" (w) x 7.3" (h) x 3.0" (d) (excluding connectors and battery)
- > Weight: < 2.5 lb.
- > Power: 11-13 VDC, < 11 W (Rx), < 27.5 W (Tx/Rx)

TNR 2e Kit, SPOT configuration (PN 1000174056)

ITEM	QTY	L3 PART NUMBER
TNR 2e transceiver	1	0N849270
Quad-band omni	1	1000089974
Panasonic Tough Pad	1	1000186533
TNR 2e Red IO cable	1	1000184002
DAGR cable	1	1000184001
FZ-M1 EUD dock cable	1	1000184000
TNR 2e AC adapter	1	1000187195
Crypto Fill cable	1	1000187194
Transceiver mount/pouch	1	1000406932
Tablet mount/pouch	1	1000164773
Transit case/foam	1	1000186541
Blue-Ray drive	1	1000199138

	RF BAND				
	UHF	L	S	C	Ku ¹
Frequency	225 to 512 MHz	1625 to 1850 MHz	2025 to 2110 MHz, 2200 to 2500 MHz	4400 to 4950 MHz, 5250 to 5850 MHz	14.40 to 14.83 GHz, 15.15 to 15.35 GHz
Function	Rx	Tx/Rx	Tx/Rx	Rx	Rx
Frequency Steps	1.0 kHz	0.25 MHz	0.25 MHz	1.0 MHz	1.0 MHz

SUPPORTED FEATURES	Frequency Band	WAVEFORMS								
		UHF	DDL	DVB-T	Tactical (1.6, 3.2 and 6.4 Mbps)	BE-CDL Modes 1-6, 101-105 (up to 10 Mbps)	CDL (2.0 and 10.71 Mbps)	Tactical BR-455	Tactical BR-466ER	VNW (50 kbps to 5 Mbps)
	L	Rx	Rx	Tx/Rx	Tx/Rx	Rx		Rx	Tx2/Rx	Rx
	S	Rx	Rx	Tx/Rx	Tx/Rx	Rx		Rx	Tx2/Rx	Rx
	C		Rx	Rx	Rx	Rx	Rx	Rx	Rx	Rx
	Ku ¹			Rx	Rx	Rx		Rx	Rx	
	Type 1			X	X	X		X	X	
	AES	X	X	X	X3	X		X	X	



1 Compatible data rates and frequencies only available with optional Ku-Band accessory
 2 Transmit in 5 Mbps, FEC 4/5 mode only
 3 Only modes 1-6

TACTICAL NETWORK ROVER® 2e Kit

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