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TACTICAL NETWORK ROVER® 2i (TNR 2i) WIDEBAND ISR HANDHELD TRANSCEIVER

Delivering wideband reliable and secure communications to the tactical edge

TNR 2i builds on the legacy of previous generation ROVER handheld products by offering the widest ISR platform compatibility to date. TNR 2i is the perfect choice for ISR handheld applications where interoperability, security and performance are all important considerations.

PRODUCT DESCRIPTION

The TNR 2i handheld transceiver supports both analog and digital waveforms enabling interoperability with commonly fielded US and NATO airborne platforms.

In addition to traditional video downlink capability, TNR 2i provides bidirectional IP networking (Net-T). This kind of network connectivity 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.

TNR 2i is also a software defined radio, which allows for field upgrades for future waveforms.

Unprecedented Situational Awareness to Dismounted Ground Troops

KEY BENEFITS

EASY TO CONFIGURE

The TNR 2i is simple to configure, ensuring flexibility from mission set to mission set

> Auto configuration via "ROVER code"
> Keypad Selectable Presets
> Comprehensive configuration available via Graphical User Interface

UPDATED PERFORMANCE

Updated high performance hardware and software.

> Expanded UHF, L and S Band Coverage
> Software defined radio allows for field upgrades for future waveforms

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SPECIFICATIONS

SPECIFICATION	TNR 2i
RF Performance Characteristics, Transmit (TX) and Receive (RX) bands (simultaneously uses one band for TX and a different band for RX)	
UHF (RX only), MHz	225-512, 1 kHz steps
L-Band, MHz	1625-1850, 0.25 MHz steps
S-Band, MHz	2025-2110 and 2200- 2500, 0.25 MHz steps
C-Band (RX only), MHz	4400-4950 and 5250-5850, 1.0 MHz steps
Ku-Band1 (RX only), GHz	14.40-14.83 and 15.15-15.35, 1.0 MHz steps
Waveforms	
CDL/STANAG 7085, Mbps	2.0 and 10.71 (RX only)
BE-CDL, Modes	1-6, 101-105 (up to 10 Mbps)
Tactical, Mbps	1.6, 3.2, 6.4
DDL	RX only
VNW, Mbps	0.05 to 5
Legacy ROVER 455k	RX only
ROVER 466 ER	RX only
Analog FM	RX only
DVB-T	RX only
Encryption	
AES	256 bit
Video	
Decode	H.261, H.264, MPEG-2, MPEG-4, MJPEG, Analog NTSC/RS-170
SWaP (without battery)	
Size (excluding connectors), in	2.3 x 7.3 x 3.0
Weight, lbs	< 2.5
Input Voltage, VDC	11 to 13
Power Consumption, watts	11 max (RX only) 27.5 max (TX/RX)
Battery	AN/PRC-148 or AN/PRC-152

WAVEFORM COMPATIBILITY MATRIX	CDL	BE-CDL	TACTICAL	DDL	VNW	455K	466 ER	ANALOG	DVB-T
Frequency Bands									
UHF	RX	RX	RX		RX		RX		
L-Band	RX	TX/RX	TX/RX	RX	TX^2/RX		RX	RX	RX
S-Band	RX	TX/RX	TX/RX	RX	TX^2/RX		RX	RX	RX
C-Band	RX	RX	RX		RX	RX	RX	RX	RX
Ku-Band^1	RX	RX	RX		RX		RX		
Encryption									
AES	X	X	X	X	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

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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