TACTICAL NETWORK ROVER® 2e (TNR 2e) TYPE-1 WIDEBAND ISR HANDHELD TRANSCEIVER

Delivering wideband reliable and secure communications to the tactical edge

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

PRODUCT DESCRIPTION

The TNR 2e handheld transceiver supports both analog and digital waveforms enabling interoperability with commonly fielded U.S. and NATO airborne platforms. The TNR 2e also supports Type-1 encryption/decryption (using a National Security Agency (NSA) certified Communications Security Module), ensuring that your communications are reliable and secured.

In addition to traditional video downlink capability, TNR 2e 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 2e 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 2e is easy to configure, but also flexible enough for any mission.

> Auto configuration via "ROVER code"

> Keypad selectable presets

> Comprehensive configuration available via USSOCOM designed Graphical User Interface

UPDATED PERFORMANCE

Updated high performance hardware and software.

> Expanded UHF and S-Band coverage

> Secure digital communications
  - Type-1 encryption/decryption
  - USG and Coalition cryptographic interoperability
  - AES

> NSA Type-1 certified
  - Interoperability with legacy systems

> Software defined radio allows for field upgrades for future waveforms

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SPECIFICATIONS

SPECIFICATION	TNR 2E
RF Performance Characteristics, Transmit (TX) and Receive (RX) bands (simultaneously uses one band for TX and a different band for RX)	
UHF (RX only)	225–512 MHz, 1 kHz steps
L-Band	1625–1850 MHz, 0.25 MHz steps
S-Band	2025–2110 MHz and 2200–2500 MHz, 0.25 MHz steps
C-Band (RX only)	4400–4950 MHz and 5250–5850 MHz, 1.0 MHz steps
Ku-Band[1] (RX only)	14.40–14.83 GHz and 15.15–15.35 GHz, 0.25 MHz steps
Waveforms	
CDL (RX only)	2.0 Mbps and 10.71 Mbps
BE-CDL	Modes 1–6, 9-11, 101–105 (up to 10 Mbps)
Tactical	1.6 Mbps, 3.2 Mbps, 6.4 Mbps
DDL (RX only)	1.5 Mbps and 4.5 Mbps
VNW (RX only[2])	0.05 Mbps to 5.0 Mbps
Legacy ROVER 455k (RX only)	455 kbps
ROVER 466 ER (RX only)	466 kbps
Analog FM (RX only)	
DVB-T (RX only)	3.75 Mbps to 21.11 Mbps
IW (RX only)	400 kbps, 3.5 Mbps, 10.0 Mbps (Ku-band only) 750 kbps, 1.5 Mbps, 3.0 Mbps, 6.0 Mbps
Encryption	
Type-1 (SCM 100)	
AES	
Video	
Decode	H.261, H.264, MPEG-2, MPEG-4, MJPEG, Analog NTSC/PAL
SWaP (without battery)	
Size (excluding connectors)	2.3" x 7.3" x 3.0"
Weight	< 2.5 lbs
Input Voltage	11 VDC to 13 VDC
Power Consumption	11 W max (RX only) 27.5 W max (TX/RX)
Battery	MBITR

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

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1025 W. NASA Boulevard
Melbourne, FL 32919