

Product Description

Advanced MANET Software Defined Radio is a configurable with multi-Waveforms and Protocols, advanced Baseband and RF Hardware for Military and Industry Applications

Applications

- Secure Wireless Connectivity for military forces, military vehicles (ground, navy and airborne)
- Mesh backhaul Connectivity for 4G and 5G Networks to enable tactical security
- Military Forces Communication Networks
- Tactical Sensor Communication Networks

Product Variants



Handheld SDR



Manpack SDR



Airborne/Vehicle SDR

Product Specifications

Features	Handheld	Manpack	Airborne/Vehicle
Frequency Band	V/UHF	V/UHF	V/UHF and L bands
RF Power	Max 5W	10W, 20W	10W, 20W and 50W
Waveforms	<ul style="list-style-type: none"> ▪ Digital Waveforms: <ul style="list-style-type: none"> • Wideband and Narrow Band • COFDM, SC-FDE, DSSS, SOQPSK, GMSK • QPSK, QAM16, QAM32 and QAM64 ▪ Legacy Waveforms: <ul style="list-style-type: none"> • AM, FM, FSK ▪ Clear and Secure Modes 		
Network Topology	<ul style="list-style-type: none"> ▪ PTP, PTMP, Mesh 		
Max Nodes	40 Nodes and Scalable Design		
Synchronization	GPS and Non-GPS Modes		
Positioning	GPS, GLONASS and IRNSS Constellations		
Channel Bandwidths	25 KHz to 2 MHz	25 KHz to 20 MHz	25 KHz to 30 MHz
Data Rates	9.6 Kbps to 1 Mbps	9.6 Kbps to 15 Mbps	9.6 Kbps to 100 Mbps
Security	<ul style="list-style-type: none"> ▪ COMSEC: AES256 ▪ TRNASEC: FH with Rates of 100 Hop/sec to 5000 Hops/sec 		
Cognitive features	AI model based Interference analysis, Dynamic Channel Selection & Frequency Hopping		
Payloads	<ul style="list-style-type: none"> ▪ Audio, Video, Data 		
UI	DTE based UI Application with Radio Configuration, Monitoring and Situational Awareness		
Digital Interfaces	Analog Audio, RS232 and Ethernet		
Power Input	Battery based	24V	24V
Weight	< 1.2 Kg	< 6.5	< 10 Kg
Environmental Compliance	MIL STD 810 G compliance for Vibration, shock, and thermal stress MIL STD 461E compliance for EMI/EMC		

