E-LynX™ MP Vehicular

Dual Channel Vehicular Radio

Dual Channel, multi-band, multi-waveform vehicular SDR

- Powerful Dual Channel 50W+50W SDR platform enabling multiple concurrent waveforms while covering the NATO mobile frequency bands from 30MHz to 1.8GHz
- Extended networking coverage using robust and unique multi-hop concurrent flooding techniques
- Robust design for harsh combat conditions
- Simultaneous multiple voice sessions along with data, BFT and video services
- Supports a multitude of interfaces required in a modern combat system solution
- Simple and intuitive user interface using icon-based color display
- Embedded IP router supporting standard IP routing protocols
- VOIP and analog voice interface support
- Embedded GPS supporting continuous high resolution Blue Force Tracking capabilities
- GPS-independent synchronization

Elbit Systems™
C4I and Cyber

E-LynX MP Vehicular Dual Channel Vehicular Radio

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Elbit Systems' E-LynX MP Dual Channel Vehicular Radio is a multi-band, multi-waveform and multi-role tactical dual fit vehicular SDR, designed specifically to support combat land/maritime forces over any terrain type. The radio operates in VHF and UHF bands continuously while also covering L Band and featuring GPS-independent synchronization for all operating modes. This future-proof vehicular SDR offers seamless communications and situational awareness, while utilizing unprecedented immunity (ECCM) and communications security (COMSEC) for a multitude of missions and applications. Combat-proven mobile ad-hoc networking (MANET) provides continuous IP connectivity, while automatic self-forming, self-healing, routing and relay capabilities dramatically extends the E-LynX's reach over harsh field conditions, ensuring no single point of failure. E-LynX MP Dual Channel Vehicular Radio supports simultaneous operation of narrow band tactical waveforms as well as high data rate wide band waveforms, providing a dynamic solution adapted to any terrain or mission. As a modular expansion of the E-LynX MP Which extended the communication range while maintaining dismounted operational capabilities, the E-LynX MP Dual Channel Vehicular Radio is a true force multiplier, providing a decisive advantage on the battlefield.

Technical Specifications

General	
Frequency Range	30-512MHz 1.0-1.8 GHz
Architecture	SCA 2.2.2
Networking	Multi-hop Mobile Ad-Hoc IP Networking (MANET) implementation via hybrid technology: concurrent flooding and store & forward
Preset Channels	100 per waveform
Operation	• 2.8" graphic color display • Cellular-like icon-based operation
Features	
Dual Channel	Enables the SDR to be active in two radio networks simultaneously
Voice	• Analog: F3E, STANAG 4204 Digital: 2.4 & 4.8 kbps Vocoders • **VoIP support** • Multiple concurrent voice-sessions in all waveforms
Data	IP Layer 3
GPS	• Internal receiver • Auto/manual location report
Embedded Applications	• Blue Force Tracking (BFT) • **Visual network-topology** • Network monitoring
Interface and Management	
Interfaces	Ethernet, Analog Voice, (RS-232, USB optional) Multiple software-controlled antenna ports
Network Management	NMS interfaces support using SNMP-v3
Waveforms	
Bandwidth	25KHz, 50KHz, 1MHz, 4MHz (500KHz, 2MHz optional)
Modulation	FM, BPSK, GMSK, PSK, QAM

Immunity and Robustness	
Synchronization	• Autonomous, no master station, no single **point of failure** • No reliance on GPS or any external signal
COMSEC and TRANSEC	AES256
ECCM	• Robust frequency hopping • Jamming resistant
Transmitter	
Power Output	Two RF heads with up to 50W Nominal
Frequency Stability	40 PPB
Spurious Emission	-80 dBc
Harmonic Emission	Better than -60 dBc
Output Protection	Open and short-circuit
Receiver	
Typical Sensitivity	FM: -116 dBm for 12 dB SINAD
Squelch	Off, tone, noise, digital
Environmental	
Environmental	MIL-STD-810G
EMC	MIL-STD-461F
Physical	
Dimensions (HxWxD)	160 x 285 x 364 mm
Weight	<17 Kg
Power	
Power Source	Nominal 24V
Standard	MIL-STD-1275A/AT

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