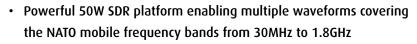
E-LynX[™] Vehicular

MCTR-7200MP-VS50 Single Channel Vehicular Radio

Multi-band, multi-waveform vehicular SDR



- 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



E-LynXTM Vehicular MCTR-7200MP-VS50 Single Channel Vehicular Radio

Multi-band, multi-waveform vehicular SDR

Elbit Systems' E-LynX[™] 7200MP-VS50 is a multi-band, multi-waveform and multi-role tactical single 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 (optional). Featuring GPS-independent synchronization for all operating modes, including anti-jamming, this future-proof 50W 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)

Technical Specifications

General		
Frequency Range	30-512MHz 1.0-1.8 GHz (Optional)	
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		
Voice	 Analog: F3E, STANAG 4204 Digital: 2.4 & 4.8 kbps Vocoders VoIP support Multiple concurrent voice-sessions in all waveforms 	
Data	IP Layer 2/Layer 3 support	
GPS	 Internal receiver Auto/manual location report 	
Embedded Applications	 Blue Force Tracking (BFT) Visual network-topology Network monitoring 	
Interface and Management		
Interfaces	Ethernet, RS-232, Analog Voice, Multiple software-controlled antenna ports	
Network Management	NMS interfaces support using SNMP-v3	
Waveforms		
Bandwidth	25KHz, 1MHz, (50khz, 500khz, 2MHz, 5MHz are optional)	
Modulation	FM, BPSK, GMSK, PSK, QAM	

provides continuous IP connectivity, while automatic self-forming, self-healing, routing and relay capabilities dramatically extends the E-LynX's™ reach over harsh battlefield conditions, ensuring no single point of failure. The E-LynX[™] 7200MP-VS50 supports 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[™] 7200MP which extended the communication range while maintaining dismounted operational capabilities, the E-LynX[™] 7200MP-VS50 is a true force multiplier, providing a decisive advantage on the battlefield.

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	Up to 50W	
Frequency Stability	0.3 PPM	
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 245 mm	
Weight	<11 Kg	
Power		
Power Source	Nominal 24V	
Standard	MIL-STD-1275A/AT	



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