

# E-LynX™ Vehicular

MCTR-7200MP-VS50 Single Channel Vehicular Radio

Multi-band, multi-waveform vehicular SDR



- Powerful 50W SDR platform enabling multiple waveforms 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 and video services
- Supports all interfaces required in modern combat systems
- 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

## 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 land and maritime combat forces over any terrain type. The radio operates in VHF and UHF bands continuously with optional L Band coverage. 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 variety 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 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 with 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.

## 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	<ul style="list-style-type: none"> <li>• 2.8" graphic color display</li> <li>• Cellular-like icon-based operation</li> </ul>
Features	
Voice	<ul style="list-style-type: none"> <li>• Analog: F3E, STANAG 4204</li> <li>• Digital: 2.4 &amp; 4.8 kbps Vocoders</li> <li>• VoIP support</li> <li>• Multiple concurrent voice-sessions in all waveforms</li> </ul>
Data	IP Layer 2/Layer 3 support
GPS	<ul style="list-style-type: none"> <li>• Internal receiver</li> <li>• Auto/manual location report</li> </ul>
Embedded Applications	<ul style="list-style-type: none"> <li>• Blue Force Tracking (BFT)</li> <li>• Visual network-topology</li> <li>• Network monitoring</li> </ul>
Interface and Management	
Interfaces	Ethernet, RS-232, Analog Multiple 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

Immunity and Robustness	
Synchronization	<ul style="list-style-type: none"> <li>• Autonomous, no master station, no single point of failure</li> <li>• No reliance on GPS or any external signal</li> </ul>
COMSEC and TRANSEC	AES256
ECCM	<ul style="list-style-type: none"> <li>• Robust frequency hopping</li> <li>• Jamming resistant</li> </ul>
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 230 x 250 mm
Weight	<19 Kg
Power	
Power Source	Nominal 24V
Standard	MIL-STD-1275A/AT



**Elbit Systems C4 and Cyber**  
 2 H'amachshev St., Netanya 4250712, Israel  
 E-mail: C4icyber.info@elbitsystems.com www.elbitsystems.com

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