E-LynX™ Manpack

Dismounted SDR Solution

Multi-band, multi-waveform tactical SDR

- Powerful SDR platform enabling multiple waveforms covering the NATO mobile frequency bands from 30MHz to 512MHz
- 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 Manpack Dismounted SDR Solution

Multi-band, multi-waveform tactical SDR

Elbit Systems' E-LynX MP is a multi-band, multi-waveform and multi-role tactical single fit Manpack SDR, designed specifically to support combat land/maritime forces over any terrain type. The radio operates in VHF and UHF bands continuously and featuring GPS-independent synchronization for all operating modes. This future-proof 10W Manpack 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 battlefield conditions, ensuring no single point of failure. The E-LynX MP supports narrow band tactical waveforms as well as high data rate wide band waveforms, providing a dynamic solution adapted to any terrain or mission.

Technical Specifications

General

Frequency Range	30-512MHz
Optional mission modules (dual channel radio)	225-512 MHz 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

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	AES256
ECCM	• Robust frequency hopping • Jamming resistant

Transmitter

Power Output	Up to 10W Nominal
Frequency Stability	0.28 PPM
Spurious Emission	-80 dBc
Harmonic Emission	Better than -50 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)	155 x 225 x 85 mm
Weight without battery pack	<2.8 Kg

Power

Power Source	Nominal 14.4V
Battery	TLI-9380E1, 17.4Ah

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