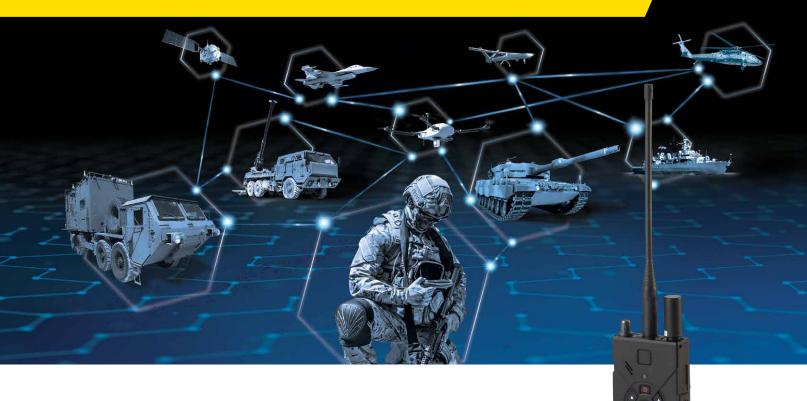# E-LynX™ PNR-1000

Combat soldier networking SDR

- ▶ **Secure and powerful SDR platform**

- ▶ **Complete NATO frequency coverage:** UHF

- ▶ **Advanced techniques:** Unique multi-hop concurrent flooding

- ▶ **Robust communication:** GNSS-independent self-synchronization

- ▶ **Integrated services:** Simultaneous high-quality voice sessions, IP data, BFT services in a single network

- ▶ **Hierarchical and flexible network configuration**

- ▶ **Seamless connectivity:** Interfaces for voice and data, ensuring smooth integration with customer devices

- ▶ **Intuitive user interface:** Voice menu with multi-language support and wireless PTT

Elbit Systems™

C⁴I and Cyber

E-LynX™ PNR-1000

Multi-role, Multi-waveform

A combat-proven soldier solution providing a dynamic, secure network adaptable to any terrain or mission.

Superior Performance

Seamless communication and situational awareness with superior RF performance and minimal SWaP.

Member of E-LynX™ SDR Family

Delivers advanced multidomain networking solutions, meeting the complex communication and connectivity needs of modern battlefields across all echelons and operational scenarios.

Technical Specifications

General	
Frequency range	225-512 MHz
Radio presets	225 (15 banks of 15 channels each)
GNSS	Internal receiver
Interfaces	Ethernet, USB, analog audio, wireless PTT
Operation	Keypad and audio feedback
Extensive software tools	Configuration, planning and management, network control, security (including keys generation and loading)
Mounted options	20W vehicular adapter
Soldier Radio MANET Waveform	
Networking	Multi-hop Mobile Ad-Hoc IP Network (MANET) featuring robust routing technologies: concurrent flooding and store & forward, multi-hop (up to 3 hops), self-forming, self-healing
Services	Simultaneous voice (analog and external VoIP), IP data and BFT/PLI. Multiple voice groups in a single net.
Network synchronization	Autonomous, no master station, no single point of failure, no reliance on GNSS receiver or any external signal
Network members	Up to 45 members
Voice groups	Up to 14 simultaneous voice group sessions / Full duplex conversations. Double PTT enables dynamic network hierarchy
Blue force tracking (BFT)	Automatic BFT dissemination

Transmitter and Receiver Performance	
Output power	Low 0.5W, Med 1W, High 2W
Channel bandwidth	200 kHz
Frequency stability [ppm]	+/-0.3ppm
Sensitivity	-107dBm @ 10dB SINAD
Spurious suppression	75dB above MDS
Harmonic suppression	HD2/3 > -20dBm, HD4 > -80dBc
Output protection	Open and short-circuit
Secure Communication	
Security	• COMSEC utilizing AES-256 • Emergency erase • Secured management via SNMPv3
Power	
Power input	9-16 VDC
Power sources	Multiple rechargeable Li-ion battery options
Physical	
Dimensions (HxWxD)	120x72x26mm (without battery)
Weight	360g (without battery)
Qualifications	
Environmental	MIL-STD-810G
EMC	MIL-STD-461F