E-LynX™ Soldier Radio
PNR-1000
Combat Soldier Networking Radio

- Powerful SDR platform to meet wide range of operational needs
- Efficient bandwidth for simultaneous Voice, Data and BFT @200Khz
- Robust network using unique concurrent transmission technique
- Extended coverage using a multi-hop MANET scheme
- Continuous high resolution Blue Force Tracking capabilities
- Hierarchical and flexible network configuration
- No GPS reliance for network services
- Intuitive user interface using a voice indicated menu with multi-language support
- Integrated solution reinforced by vehicular 10W amplifier, wireless PTT, personal computer, etc.

Elbit Systems™
C⁴I and Cyber

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Elbit Systems' E-LynX PNR-1000 is a powerful SDR platform designed specifically to support dismounted soldiers over any terrain type. This IP radio offers ad-hoc networking capabilities including automatic multi-hop services for voice and data, significantly enhancing situational awareness and operational effectiveness over harsh field conditions. The E-LynX PNR-1000 operates in UHF band with continuous frequency coverage between 225-512 MHz on a very efficient bandwidth of 200 KHz, while supporting voice, data and BFT simultaneously.

A sophisticated protocol for media access and concurrent transmission methodology with a unique self-synchronization technique enables each radio in the network to automatically and rapidly synchronize with any other radio operating in the same network, without the use of an external synchronization source (e.g., GPS signal or masters station). The E-LynX PNR-1000 provides unique technology that maximizes communication dependability and range while minimizing network vulnerability.

Technical Specifications

General	
Frequency Range	225 - 512 MHz
Bandwidth	200 kHz
Output Power	3 levels: 0.5W, 1W, 2W, vehicular 10W
Voice	VOCODER
Preset Channels	225 (15 banks of 15 channels each)
Built-In Test (BIT)	Start-up, on-line and operator initiated
Power	8-16 V Li-Ion rechargeable battery
Ad-hoc Networking	45 members by default; up to 64 members, supporting multi-hops, self-forming, self-healing
Automatic Voice Relay	Supporting multi-hops
Interfaces	Asynchronous RS-232/ USB/ ETHERNET
Voice Communications	Full duplex communications conference with up to 6 simultaneous speakers Double PTT solution enables dynamic network hierarchy
AGPSR	Embedded GPS with automatic GPS report
Encryption	AES 256
Synchronization	Automatic self-synchronization, no master station or GPS required
Late Entry Synchronization	Automatic, no special procedures required
WPTT (optional)	Embedded Wireless PTT
Dimensions	
HxWxD	120x72x26 mm
Weight	<360 gr
Volume	225 cc
MIL-STD	
Environmental	MIL-STD-810
EMC	MIL-STD-461
Maintenance	
MTBF	>20,000 hours

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