EZPRR - Enhanced Personal Role Radio

Radios: PRR

Today's theatre of war is a dynamic asymmetric battlespace, with forces on the ground often involved in simultaneous operations and with an increased emphasis on urban warfare.

The Enhanced Personal Role Radio (EZPRR) significantly enhances combat effectiveness by providing all informed communications to front line soldiers, replacing traditional methods based on hand signals and shouting.

Users on active service have described the introduction of the PRR as having a profound effect on the operational effectiveness of infantry. The EZPRR builds on that operational success, enhancing vital performance features. In its turn, the EZPRR is now operationally proven.

The EZPRR uses advanced 2.4GHz spread spectrum technology innovatively packaged to meet the demanding needs of the soldier.

The EZPRR system is easy to use through its simple humanmachine interface, is unobtrusive and comfortable to wear yet is rugged enough to sustain the harshest environments presented by active front line operations.

The modularity of the EZPRR design leads to flexibility and its use in many scenarios. It includes a unique wireless Press To Talk (PTT) that enables the user to operate the radio without removing his hands from his weapon. It has an interchangeable switch pack that allows configuration to different roles (e.g., interface to a commander's radio), and audio ancillaries that can be tailored to suit the needs of all users.

Main Features

- Simple to use
- Compact and lightweight design
- 100mW transmit power using Direct Sequence Spread Spectrum Modulation at 2.4GHz
- Typical operating range is 800m in open terrain, and through three floors of a building
- Wireless Press-To-Talk with up to 2m range
- 256 channels, 16 available directly to the user
- Operates from 2 x AA batteries for greater than 24 hours (1:7:16 Tx/Rx/Standby)
- Operates independently of any infrastructure
- NBC compatible
- Audio interface for concurrent combat radio operation.

Operational Benefits

The use of EZPRR within infantry units greatly enhances all aspects of dismounted combat. Operations are much slicker, more effectively applied, better co-ordinated and safer. Key improvement areas are:

- Increased tempo of operations
- Improved situational awareness
- Improved targeting and direction of fire
- Element of surprise maintained, particularly in urban operations
- Improved survivability: reduced friendly fire
- Quicker briefings
- Better/quicker re-supply operations
- Better resource visibility

PTT Switch Packs

The EZPRR can be configured in two roles. The PRR body is fitted with one of two interchangeable PTT switch assemblies: Single PTT Switch Pack = 'Single user', operating the EZPRR only Dual PTT Switch Pack = the Commander is able to connect to the EZPRR and Combat Net Radio (CNR). Second radio interfaces can be provided for MBITR, Harris, SINCGARS, PR4G, Bowman, TETRA, ICOM, Motorola and other professional radios.

EZPRR Enhanced Perfomance

- Encryption
- Extended range
- Enhanced antenna
- Goose neck antenna
- Data enabled
- Rebroadcast station
- Base station for Command and Control posts
- Special-to-purpose ancillaries

Data PRR

The emergence of small, low-power Global Positioning Systems (GPS) and other sensors and target designators will enhance operational efficiency, provided that the information can be delivered to the right place quickly. To support data transfer within the infantry section, EZPRR has been enhanced to provide a data capability.

NBC Microphone Adaptor

To communicate whilst wearing an NBC respirator, a Microphone Adaptor is available, which connects the Lightweight Headset's microphone to the NBC respirator, delivering a high level of speech clarity. The PRR and associated equipment is NBC-compatible and can be worn outside an NBC suit.

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LEONARDO

sales@eylex.com.au
www.eylex.com.au

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