Raytheon

MicroLight™-I
Hands-Free Netted Radio System

Derived from the largest installed base of networked radios in the industry, MicroLight™-I incorporates Raytheon's expertise in RF data and voice communications. MicroLight™-I has been packaged to meet the ever changing needs of our customers.

Benefits

- Fully IP compliant for seamless integration with new and existing networks

- Flexible software design that ensures backward and forward compatibility with other systems and a broad range of ancillary devices

- Ruggedized for ground and airborne operations

- Ad hoc, self-healing network ensures highest reliability and availability

- High bandwidth supports transmission of packetized imagery

- Designed for mobility. Ideal for mobile, dynamic, infrastructureless environments

- Excellent range enhanced by automatic relay and multi-hop capability

Microlight™-I Hands-Free Netted Radio

MicroLight™-I is a small form factor, affordable radio that combines the functions of multiple systems into a single unit. MicroLight™-I transports voice, video and data over the most demanding environments, while simultaneously tracking the position and location of all network nodes. MicroLight™-I protects your people and protects your investment.

Designed for Versatility

MicroLight™-I is designed to support a wide variety of applications and performs in multiple installation configurations. Enabled by 4 million gates of programmable logic and the industry's fastest soft processor core, MicroLight™-I's versatility ensures the broadest range of uses. Supported applications include: dismounted soldier, vehicular, airborne, unmanned aerial vehicles, remote sensing platforms and expendable weapon data links.

Flexible Software Design

Complementing the hardware versatility of MicroLight™-I is the flexible software design. The robust, embedded features protect your investment by enabling the addition of new features and capabilities to MicroLight™-I with simple software downloads. This capability ensures backward and forward product compatibility.

### High Data Rate for Contention-Free Voice and Data Communications

With the largest installed base of networked radios, Raytheon understands the burgeoning need for more bandwidth in a tactical environment without sacrificing voice connectivity. Through the use of time division multiplexing, MicroLight™-I supports multiple channels of contention-free voice and data simultaneously.

Security

Microlight™-I supports commercial Advanced Encryption Standard (AES) encryption. AES provides the user with a high level of security in a variety of network centric applications.

Position Tracking and Reporting

MicroLight™-I creates a new class of radio that not only provides secure voice and data communications, but also critical position, location, tracking and information. MicroLight™-I automatically pinpoints the location of users through a combination of global positioning system (GPS) and time of arrival (TOA) geo-positioning features. This provides commanders the ability to accurately know where their people are at all times. This is a standard feature found only in the MicroLight™-I class of radios.
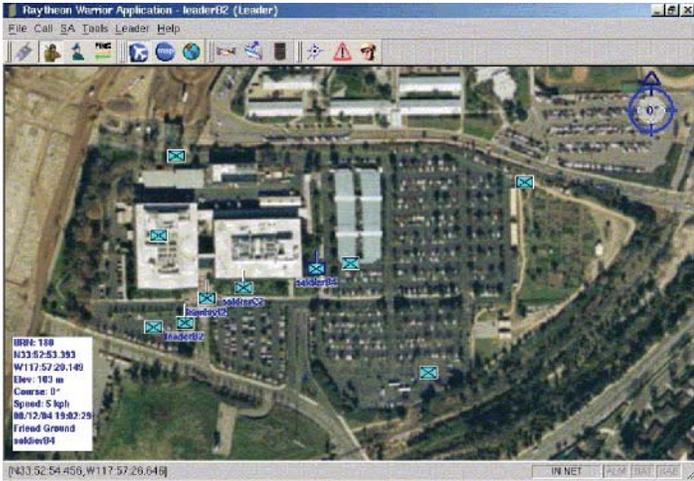
Warrior Application enables simultaneous voice and situational awareness to unit leaders.
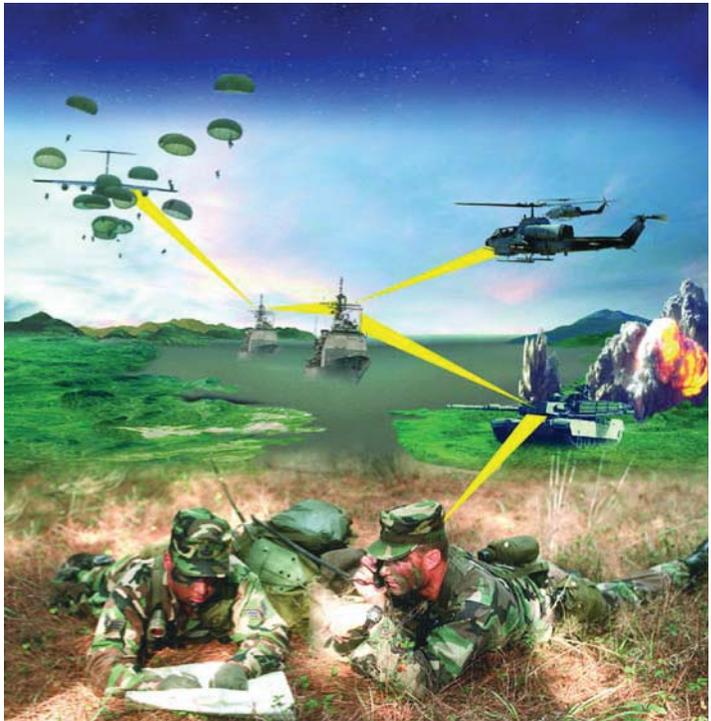
MicroLight™-I supports multiple applications including dismounted, vehicular and aerial platforms.

MicroLight™-I accessories include: battery, ruggedized laptop, MicroLight™-I receiver/transmitter, GPS antenna, voice controller and headset.

	MicroLight™-I Portable Radio (MLP)	MicroLight™-I Data Link (MLD)
Frequency Range:	420-450MHz	420-450MHz
Security:	Advanced Encryption Standard (AES)	Advanced Encryption Standard (AES)
Data Rate:	Up to 1 MBPS	Up to 1 MBPS
Interfaces:	IP over Ethernet	IP over Ethernet; RS-422; RS-232
Weight:	17 ounces	10.6 ounces
Power Output:	100 mW to 5 W	100 mW to 5 W
Power Input:	6.5 W (typical)	6.5 W (typical)
Dimensions (L x W x H)	7.0 x 3.3 x 1.8 inches	4.8 x 3.2 x 1.3 inches
Antenna:	TNC-type Connector	MMCX Connector
Operating Temp:	-32 to +55°C	-32 to +55°C
Environmental:	Per MIL-STD-810F	Per MIL-STD-810F

MicroLight™ is a trademark of Raytheon Company.

Raytheon

Customer Success Is Our Mission

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