

HF-9000

Next generation tactical software-defined HF radio for land, sea and air applications



The HF-9000 family of tactical software-defined radios (SDR), delivers a flexible, high-performance communications solution designed for land, sea and air operations. The HF radio features uniquely engineered software, firmware and hardware architecture, ensuring seamless connectivity across the entire tactical arena.

The system sets a new standard for tactical HF communications, ensuring superior performance, security and operational versatility for modern defense forces.



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Advanced communications for tactical superiority

The HF-9000 multi-use platform features powerful programmable hardware, providing reliable and resilient voice communications, Blue Force Tracking (BFT) and IP data transmission over both proprietary and standardized waveforms. Offering significant operational advantages on the battlefield, the HF-9000 is built to enhance situational awareness and mission effectiveness.

Open architecture: Supports the integration of third-party and standard waveforms, ensuring seamless interoperability across international forces. Sophisticated link establishment technology and wideband waveforms for rapid link setup and exceptional transmission rates of up to 240 Kbps, enable the transfer of large data volumes with speed and reliability.

Multiple configurations: The HF-9000 family includes a range of configurations for shipboard, vehicular and base station installation. The compact radio is suitable for installation on small naval platforms.

Military grade reliability: The system is designed to meet MIL-STD-810G environmental standards and complies with MIL-STD-461 EMI requirements for naval platforms.

Key Features

Performance:

- Wideband HF with up to 240Kbps data transfer speed
- Unique direct sampling receiver across the entire HF band with 10 parallel receivers in all transceivers, allowing standard 3G ALE with 10x faster performance
- 1.5-60 MHz frequency range
- Operational range: Can reach thousands of nautical miles

Advanced networking and security:

- 2G/3G/4G ALE in compliance with MIL-STD-188-141
- Exclusive 'THE - Tactical HF Enabler' with adaptive data rates exceeding 8000 bps @ 3KHz
- Network capability for mission-critical operations
- STANAG 4591 (600/1200/2400 bps) and Elbit 800 bps vocoder support
- Streaming waveforms: STANAG 4285 and STANAG 4539
- AES-256 encryption for secure communications
- STANAG 5066 and CMS applications for data and remote management
- Exclusive antenna solutions for optimized HF communication

Configurations:

- 30W manpack for Marines
- 125W shipboard / vehicular / base station
- 400W shipboard / vehicular / base station
- 1000W shipboard / base station
- 5000W and 10,000W for base station



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