

9671 HF

NAVAL/FIXED STATION RADIO FAMILY





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9671 HF Naval/Fixed Station Radio Family is a new generation high-performance digital radio covering 1.6-30 MHz HF Band. Software configurable architecture provides reliable secure voice and data communications by supporting various HF radio waveforms and EPM techniques. Beyond line of sight voice/data communication is achieved with the utilization of the most advanced HF technology covered in the related NATO STANAGs and Military Standards.

These state-of-the-art HF radios are developed with built-in digital encryption module for secure communication. Built-in modem offers variable data rates from 75 bps to 12800 bps matching different HF channel conditions.

With the use of modern technologies such as 3rd Generation Automatic Link Establishment (3G ALE) and Automatic Channel Selection (ACS), these radios provide ease of use, reducing the need for well-trained and experienced HF radio operators. In addition to the features provided in 3G ALE mode, manual ALE operation has been featured to the radios. In this context, ALE mode on radios provides capability to the user to create manual channel and group for communication. The radios, which are equipped with the capability of link establishment with the radios in different networks, are able to be participated in different networks.

9671 HF radio enables encrypted voice and data communication in frequency hopping mode.

9671 HF Naval/Fixed Station Radio Family Configurations:

- 150W HF Transceiver Configuration
- 400W HF Receiver Exciter Configuration
- 1000W HF Receiver Transmitter Configuration
- VLF/HF Receiver Configuration

150W and 400W configurations can be provided with built-in 40dB (10% frequency separation) Pre/Post Selector module. In case further improvement is required external 50dB (10% frequency separation) Pre/Post Selector Unit can be provided as an option.

General Features

- Frequency Hopping Capability
- Built-in Encryption
- Emergency Erase (Zeroize)

- Automatic Channel Selection (ACS)
- Channel Scanning
- Automatic Link Establishment (3G ALE)
- Built-in Loudspeaker
- VOX
- Modulation Types: USB, LSB, ISB, CW, AM, AME
- Number of Presets: 200 preprogrammed, 100 manually programmable
- Built-in-Test Equipment (BITE): Power-up/Continuous/User Tests
- Remote Control Capability: Remote voice and IP data communication capability over the radio via IP network
- Accessories/ Options:
 - Various antennas (wideband, narrowband, NVIS)
 - External Loudspeaker
 - Handset
 - GPS

User Services

- Voice Communication
 - Analog Clear
 - Digital Encrypted (600 / 1200 / 2400 bps STANAG 4591 MELPe Coded)
 - Digital Encrypted Frequency Hopping
- Data Communication: (Fixed Frequency (Clear/Encrypted), FH (Encrypted)) Synchronous , Asynchronous, IP, SMS, Operation Code
- Automatic Link Establishment in compliance with STANAG 4538 (FLSU/CLC)
- Generation of Manual Channel and Group in Automatic Link Establishment Mode
- External Interfaces: Narrow Band Voice (External Modem, External Voice Encryption, External Voice Connection), Data Device(External Data Encryption, External Data Terminal), Data Link (Link-11/Link-22), External Control (IP and Serial Control), Voice Recorder, GPS, Fillgun, Power Supply, Morse Key
- Synchronization (FH, ALE): GPS, TOD, GPS+TOD
- EPM: Frequency Hopping, Built-in Encryption

Technical Specifications:

- Frequency Band:
 - 1.6 – 30 MHz
 - 10 kHz – 30 MHz VLF/HF Receiver
- Frequency Tuning Steps:
 - TX : 10 Hz
 - RX : 1 Hz
- Frequency Stability: 0.1 ppm (@room temperature)
- Sensitivity for 10 dB SINAD (2-30 MHz, without PPS):
 - Nominal value for CW : -121 dBm
 - Nominal value for SSB : -113 dBm
 - Nominal value for AM : -104 dBm
- RF Output Power:
 - 150W TRx : 30 W/100 W/150 W PEP
 - 400W TRx : 30 W/100 W/400W PEP
 - 1000W TRx : 100 W/150 W/250 W/ : 400 W/650 W/1000 W PEP