

# SRC 9671 V/UHF

## NAVAL AND FIXED STATION RADIO



SRC-9671 Multi Band Software Defined Radio is designed to provide ECM capable encrypted and plain voice/high speed data communication for air to ground, ground to ground, ship to ship, ship to air and ship to shore communications.

- Software Programmable architecture and state of the art hardware structure support multiband and multimode capability
- Touch screen display for easy use
- Internal frequency hopping capable co-site filter
- Simultaneous voice and data communications
- Internal Guard Receiver (121.5 MHz, 243 MHz)
- ECM Protection
- MIL-STD and NATO STANAG Compatibility
- IP Data and IP Remote Control
- RF Power
  - 30W AM(Carrier)/100W FM
  - 100W AM(Carrier)/150W FM (with external PA)



# SRC 9671 V/UHF

## Naval and Fixed Station Radio

SRC-9671 V/UHF is a new generation software defined radio which is designed to provide networked communication solution for integrated C4 system in addition to reliable voice and high speed data and video communications. 30-512 MHz wide operation band and high level electronic protection measures provide high level survivability during communications in comparison to conventional radios.

SRC-9671 V/UHF radio has provisions for SATURN and UHF SATCOM communications. It's hardware supports SATURN and UHF SATCOM features.

### General Features:

- 1500 preset channels
- Internal GPS receiver
- BITE feature
- Status LEDs on front panel
- Functional Buttons for quick access
- Emergency erase knob for crypto keys
- Radio software and crypto keys loading interfaces
- Data Link (Link-11/Link-22) interface
- Serial (Synchronous and asynchronous) and IP data Interface
- Separated antenna ports for Tx, Rx and Guard Receiver)
- 90-250 VAC 47-63Hz and 22-30 VDC supply input. Automatic AC-DC switching without any performance degradation.
- 19" rack mountable structure
- EMI/EMC: MIL-STD-461E
- Environmental Conditions: MIL-STD-810F

### Operational Modes/Supported Waveforms:

Due to the software defined architecture, 9671 V/UHF SDNR supports different modes of operation. Currently following modes are supported.

#### WBNR (Wide Band Networking Radio) Waveform Mode (50-512 MHz)

- Fixed Frequency Operating Band: 225-512 MHz
- Frequency Hopping Operating Band: 50-512 MHz
- Encrypted and high frequency hopping voice/data communications
- Up to 150 radios in a NET
- TDMA based structure, OFDM modulation
- Simultaneous voice and data communications
- Adaptive coding and modulation with respect to channel condition
- Self-forming, self-healing network (MANET)
- Automatic and dynamic IP packet routing
- Automatic voice relay within net, data relay within net/with external nets.
- Quality of Service (QoS) with preemptive priority mechanism
- Automatic position transmission

#### Narrow Band Networking Radio Waveform Mode (30-512 MHz)

- Operating Frequency Band: 30-512 MHz
- Encrypted and frequency hopping voice and data communications
- TDMA based structure
- Simultaneous voice and data communications
- Adaptive coding and modulation with respect to channel condition
- Self-forming, self-healing network (MANET)
- Automatic and dynamic IP packet routing
- Automatic voice relay within net, data relay within net/with external nets.
- Quality of Service (QoS) with preemptive priority mechanism
- Automatic position transmission

#### VHF/FM CNR Mode (30-108 MHz)

- Fixed Frequency and Frequency Hopping Clear and Encrypted Voice and Data.
- FM modulation with 25kHz channel spacing
- Channel scanning (including frequency hopping channels)
- Audio-Data Relay and Forwarding
- Active- Passive Late Entry/ Hailing / Channel Scanning
- Synchronous Data Transmission (max.16 kbps, half duplex)
- SMS

#### A-CNR Mode (30-512 MHz)

- Fixed Frequency & Frequency Hopping Clear and Encrypted Voice and Data
- FM modulation with 25kHz channel spacing
- Hailing / Active-Passive Late Entry
- Channel Scanning (including frequency hopping channels)
- Audio- Data Relay and Forwarding
- Forward Error Correction (FEC)
- Synchronous Data Transmission (max.16 kbps, half duplex)
- SMS

#### SK-2 VHF/UHF Mode (146-174 MHz, 406-470 MHz)

- Operating Frequency Band:
  - VHF Band:146-174 MHz, UHF Band: 406 - 470 KHZ
- Channel Bandwidth: 25 KHz
- Fixed frequency clear and encrypted voice/data
- Over the air re-keying/forbidding
- Analog clear voice with VHF-FM radios (EN 300 086 and EN 300 113 compatible)
- Voice Services: Group Call, Emergency Call
- Data Services: Asynchronous Data (max 4.8 Kbps), Status Message Transmission, SMS

#### V/UHF Air to Ground Mode (108-400 MHz)

- AM/FM Fixed Frequency Clear Voice
- Encrypted Voice with External Encryption Device
- Encrypted data with external crypto and modem with AM mode
- Encrypted data with external crypto with FM mode
- 25/8.33 KHz Channel Spacing for AM and 25/12.5 KHz Channel Spacing for FM
- Compatible with STANAG-4205
- HQ-II waveform, STANAG-4246 compatible (225-400 MHz)

#### APCO 25 Mode (146-174MHz,380-400 MHz and 406-470 MHz)

- Channel Bandwidth: 12.5 KHz
- Fixed Frequency Clear and Encrypted Voice and Data.
- Selective Unit Call, Group call and broadcast voice services
- Package switching confirmed and unconfirmed data services.
- Digital; Compatible with TIA/EIA 102
- Analog; Compatible with TIA/EIA 603-A

