

ARTCOM | 811

MINI AIRBORNE RADIOS SERIE

#MilitaryCommunication



aselsan

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MINI AIRBORNE RADIOS SERIE

ARTCom 811 Serie Radios are specially designed for unmanned aerial vehicles. High performance and software-based architecture of ARTCom 811 Serie Radios ensure best tactical level communication and utilize advanced Electronic Counter Counter Measure (ECCM) features in VHF and UHF bands (30-512 MHz).

ARTCom 811 Serie Radios support network-based waveforms that is been rapidly deployed in tactical zones by many users. Relay feature of ARTCom 811 Serie Radios can help users to expand communication coverage.

Software defined radio architecture of ARTCom 811 Serie Radios allow to upgrade existing implemented waveform as well as to implement new waveforms and features.

Export variants exist for both NATO member users and non-NATO users.

Technical Specifications

Electronic Protection Measures (TRANSEC/COMSEC)

- Internal crypto
- Frequency-hopping spread spectrum (FHSS)
- Red/black architecture
- Zeroization

V/UHF Air-Land Mode (108-174 & 225-400 MHz)

- Channel spacing: 25/12.5 kHz FM, 25/8.33 kHz AM
- AM/FM fixed frequency digital voice

Wideband Networking Waveform Mode (50-512 MHz)

- MANET (mobile ad-hoc networking)
- Encrypted frequency-hopping/fixed frequency voice and data
- Band width: 1 MHz @FH, 5 MHz @FF
- Automatic and dynamic IP routing
- Fixed frequency band: (225-512 MHz)
- Frequency-hopping band: (50-108, 108-512 MHz)
- 150-unit support in a single physical network
- Integration of different networks
- Advanced error correction
- Real-time voice and data communication
- Cognitive coding and modulation for adverse conditions
- 900 Kbps/link @FH, 4.5 Mbps/link @FF*
- IP support (TCP/UDP)
- Multi-hop voice and data communication
- Individual and push-to-talk call services
- Up to 25 logical network support in a single physical network
- QoS & service management for different data profiles
- Location information service

Environmental Conditions

- MIL-STD810G

EMI/EMC

- MIL-STD 461F

Interface

- Ethernet (remote control/voice/data)
- RS422 (remote control)
- Fillgun
- Zeroization

*Can vary with different configurations and waveforms.

Specifications are subject to change without any notice. | All tolerances are within $\pm 10\%$.