

ARTCOM | 6993-A

MINI AIRBORNE RADIO

#MilitaryCommunication



aselsan

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ARTCom 6993-A is a new generation low-weight radio that allows pilot at the ground control station of a small/medium sized unmanned aerial vehicle to communicate with other air-ground stations in the V/UHF (30-512 MHz) band. In addition to these features, it offers voice and data communication capabilities depending on the operating mode, and can perform a relay function in the Wideband Waveform mode, expanding the communication range between elements in its network. It also has a system qualification conforms to conditions necessary for use in aerial platforms as an avionics equipment.

ARTCom 6993-A primarily supports Wideband Waveform, a network-based waveform, and the V/UHF Air AM and FM modes.

Frequency band : 30-512 MHz
RF output power : 2 W (average)

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 $\pm 10\%$.