

ARTCOM | 5712 MANGA-P

SOLDIER RADIO

#MilitaryCommunication



aselsan

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ARTCom 5712 Manga-P provides voice and data communication capability to the soldier in the field, ensuring connectivity with the members of the squad or the team. The ARTCom 5712 Manga-P is a small, lightweight and robust radio providing full-duplex communications.

The radio's full-duplex capability, allowing conferencing and VOX operation, meets stringent operational requirements. Priority-based voice conferencing allows up to five simultaneous talkers on the net while the other users can monitor the conference call.

Digital voice coding and TDMA techniques are employed to achieve full duplex voice and data communications. The Soldier Radio can communicate up to one kilometer on rural terrain.

VOX operation with standard headset enables hands-free communications. The Soldier Radio can be configured by the user or the communications planners for selected roles. The radio can be programmed to provide communication among different groups. The radio has voice messages and various alerts to inform the user regarding the state of selected communication modes.

The design of the radio complies with the vibration, shock, temperature range and immersion requirements of military standards.

The radio is powered by a rechargeable NiMH battery block providing operation in excess of 24 hours. Primary battery holder permits operation with 3 of AA size commercial batteries.

Vehicular wireless intercommunication can be achieved with Wireless Interface Unit.



General

- Integrated receiver-transmitter unit
- Short helical antenna
- Operates independently of any infrastructure
- Rechargeable NiMH or Li-Ion battery block
- Standard headset with boom microphone
- DC Battery charger (12/24 V)
- AC/DC converter 110/220Vac
- Programmable with ASELSAN Network
- Managing system

Functional Specifications

- Voice and data operation
- Full duplex communications
- Conferencing up to five users
- Encrypted communication (optional)
- User grouping
- Programmable 3 PTT buttons (2 on the gadget 1 on the headset)
- Whisper function for covert operation
- Voice messages and alerts
- Up to 19200 bps data communication
- Build in test function (BIT)
- Hands-free operation (VOX)
- Wireless interface unit for vehicular and MBT usage

Electrical Specifications

- Frequency band : 380-400 MHz
- RF output power : 125 mW
- Preset channels : up to 99
- Battery life : 24 hours with a single NiMH battery block (w. 3x NiMH AA batt.) 12 hours with a single Li-Ion battery block (at 1:2:17 Tx:Rx:waiting)

Mechanical Specifications

- Weight : <370 g (with NiMH battery block)
: <300 g (including antenna, without battery block)
- Dimensions (HxWxD) : 120x60x42mm with
: 120x60x37mm with Li-Ion battery block

Environmental Specifications (MIL-STD-810C/D/E/F)

- Temperature range : -20°C/+55°C (operating)
: -40°C/+80°C (storage)
- Humidity : 50°C, 95% Relative Humidity
- Immersion : 2 hours @ 1 m

Optional Accessories

- Throat microphone
- Car charging kit
- Carrying belt and case

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

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