

35010 Personal Radio

- wireless PTT switch
- simplex and duplex operation
- digital voice transmission (can be enciphered)
- data transmission
- conference calling
- easy to use
- operation on 16 channels
- wallet size
- power supply - 2 alkaline batteries (R6)



The **35010 radio** is dedicated for operation in small area radio networks and the communication can be kept on 16 radio channels within the 2405 ÷ 2480 MHz frequency band.

It enables two way communication at a distance up to several hundred metres in an open terrain.

The **35010 radio** is intended for use as soldier personal equipment and allows the following types of radio communication:

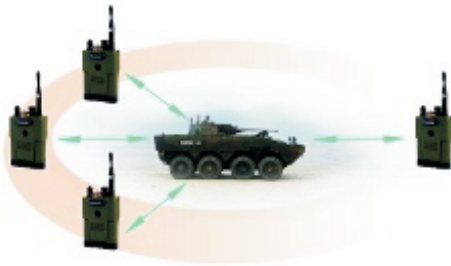
- half duplex digital voice with wireless PTT or VOX
- full duplex digital voice (conference) with VOX
- full duplex digital voice with wireless PTT or VOX
- max data transmission rate 57,6 kb/s
- simultaneous voice and data transmission 19,2 kb/s

The **35010 radio** operates in DSSS mode (Direct Sequence Spread Spectrum) with transmission of audio or data signal packets, which can be enciphered.

The transceiver unit co-operates with the wireless PTT switch using the Frequency Hoping Spread Spectrum (FHSS) system. Each radio operating in the network has its own unique digital address used in the FHSS communication between the transceiver unit and the wireless PTT switch.

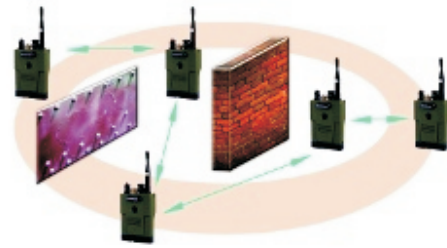
To reduce probability of detection and interception of the radio operation, to save the energy and to eliminate mutual interference between individual units, the transmitters are being switched on periodically (burst operation) for short time in the way excluding simultaneous transmission of radio and accessories.

35010 Personal Radio



“Static” retransmission

the communication between the radios is possible only through re-transmission point



Dynamic retransmission “ad hoc”

each of the radios working in the group of radios can take part in re-transmission

The radio enables

- co-operation of the transceiver unit with the headset and wireless PTT
- handheld operation (without the headset and wireless PTT switch)
- connection to mobile object intercom network as an access point
- full duplex operation with not more than four users speaking simultaneously
- using additional wireless PTT to control other radio (also different type)
- automatic re-transmission, including re-transmission with using different type of radio

Technical specification

- frequency band: 2405 ÷ 2480 MHz (ISM band)
- number of channels: 16
- channel spacing: 5 MHz
- operation mode: DSSS
- type of encoding: CVSD
- max. data transmission rate: 19,2 kb/s; 57,6 kb/s
- transmitter r.f. power: 10/100/400 mW
- access type at full duplex: TDMA
- number of users at full duplex: 4
- range in an open terrain: 700 m
- range of wireless PTT: 2 m
- operation time (Tx/Rx/S'By – 1/7/16): 15 h
- battery: 2 x alkaline (R6) or 2 x Ni-MH (AA)
- dimensions (without antenna): 115 / 69 / 25 mm
- weight (without batteries): 270 g

Basic set

- transceiver
- antenna
- battery pack
- carrying case
- wireless PTT
- headset without PTT

Options

- vehicular adapter
- charger (10 positions)