



fol. Flagout

WB GROUP 

Personal Soldier Radio

R35010



The R35010 is intended for communication between team members or combat teams in small radio networks. It operates in the frequency band from 2405 MHz to 2480 MHz, and users can communicate using 16 pre-sets (every pre-set defines channel and other settings). The R35010 operates in a Direct Sequence Spread Spectrum (DSSS) system with pulse reception and transmission. Impulse works allows to radically minimize the risk of enemy transmission detection. The R35010 is a small and lightweight device designed for immediate use.

Simple operation and reliability make it possible to maintain communication between all members of the task group. The radio allows you to create up to 64 different radio networks operating on the same frequency by assigning a different network ID number. In addition, the grouping feature gives you the ability to create radio networks of a variety of structures, including hierarchical.

General

the smallest radio station available on the market

conference mode (full-duplex)

wireless PTT switch

simultaneous transmission of speech and data

AES-128 encryption *

built-in GPS receiver *

creating radio networks of various structures

low transmission detection risk

powered by two AA batteries

* options; some services are available only in selected radio versions



The types of communication available on the R35010 radio

simplex digital voice communication with the initialization of transmission by built-in PTT button, wireless PTT (WPTT)

simplex digital voice communication with automatic retransmission

full duplex digital voice communication (conference mode) with the initialization of transmission by built-in PTT button
 wireless PTT (WPTT) with the possibility of simultaneous data transmission (up to 19,2 kb/s)
 with the initialization of transmission by built-in PTT button
 wireless PTT (WPTT) with the possibility of simultaneous data transmission (up to 19,2 kb/s)
 all radios from the network are able to receive conference call simultaneously but the simultaneous transmission is available for up to 4 radios

max data transmission mode 125 kb/s

Initialization of transmission

built-in PPT button

wireless PTT button (WPTT)

double wireless PTT button (DWPTT)

by voice (VOX)

Optional equipment

GPS

The device may have a built-in GPS receiver (as an option) for geographic positioning, allowing transmission of GPS position depending on configuration: autonomously with different repetition times, at the end of each broadcast, or on demand by the other radio. The radio has a built-in GPS antenna, but it is also possible to connect an external antenna.

AES encryption

R35010 may be optionally fitted with AES encryption algorithm.



Five socket charging device 02753

Retransmission

Unique in personal radios, and at the same time very useful function is the possibility of automatic retransmission. Working with retransmission dramatically increases the range of communication. It provides better "coverage" of the area, bypassing the various obstacles in the urbanized area or in buildings. It works well in a heavily corrugated area or when there are other obstacles to communication. Only possible in simplex mode.

Power supply

The radio is powered by two AA size batteries, but you can also use ordinary alkaline batteries. They enable the radio to operate for up to 17 hours (transmit: receive: listen: = 1: 7: 16) – depending on the type of operation and the radio.

Voice information

A very convenient and useful feature is to provide voice information of the selected network number. These messages are delivered to the headset loudspeaker if it is connected to the radio or via the internal loudspeaker for manual operation. This function is activated during radio configuration.

Quick programming – Fill Gun

The Fill Gun programmer is used to quickly copy the parameters of every radio pre-sets.

Mobile version

The vehicle adapter allows you to mount the radio in the vehicle and connect it to the intercom (on-board internal communication network). Connecting to a mobile antenna increases the range of communication. Good sound quality can be ensured by connecting adapter to an external handset. After mounting of the radio in the vehicle, it is powered from the on-board network.

Group function and integration

Activating the grouping feature gives you the opportunity to create radio networks of various structures that selectively transmit or receive correspondence. This feature requires the use of a dual wireless DWPTT transmitter. You can create this way e.g. hierarchical networks mapping the command vertical structure in the service, as well as networks integrated with the high-level radio networks.

Emergency erasing

The user can quickly erase all the settings of the radio. After that normal operation in the transmission and reception mode is not possible. The restoration of normal operation is possible only by re-configuring.



Vehicle adapter for mobile set with radio R35010



Single ear headset with mounting tape



Headset with bone conduction microphone



Headset with hearing protection



Multifunctional headset



In-Ear Bone Conduction Headset System with Hearing Protection and double PTT



In-Ear Bone Conduction Headset System with Hearing Protection

Accessories

wide range of headset sets

wireless WPTT switch

double wireless switch DWPTT

vehicle adapter for mobile set

handset to work with mobile set

deck antennas

single, five, or ten socket charging devices for recharging radios or independent devices for rechargeable batteries

cases – for attaching a radio over a shoulder, or a MOLLE vest

clip for attaching a radio to a belt or a MOLLE waistcoat

Technical specification

Basic technical parameters	Frequency range	2405 ÷ 2480 MHz (ISM band)
	Channels raster	5 MHz
	Number of programmable pre-sets	16
	Modulation technique	DSSS
	Voice encoding method	CVSD
	Max data rate	125 kb/s
	Encryption algorithm*	AES-128
	GPS receiver*	built-in (with internal or external antenna)
	Transmitter RF power	100 mW; 400 mW; 650 mW
	Receiver LF power	250 mW @ 8Ω (internal speaker)
		10 mW @ 32Ω (external speaker)
	Power supply voltage	2,1 ÷ 3,6 V (2x AA) / 5,0 V through DATA socket
	Access type at duplex	TDMA
	Number of users at full duplex (conference)	4 simultaneous transmissions
	Number of listeners	unlimited
MTBF	≥ 5 000 h	
Basic performance parameters	Radio range in the open area	up to 1200 m
	Range of WPTT/DWPTT	up to 2 m
	Operation time (Tx/Rx/S'By = 1/7/16)	up to 17 h (depending on operation mode)
	Power supply	2 x AA NiMH battery
		2 x alkaline battery
	Dimensions (without antenna)	115 x 69 x 37 mm
	Weight (without battery)	345 g
	Power supply of WPTT	CR2450 3,0 V lithium battery
	Dimensions of WPTT	50 x 38 x 17 mm
	Weight of WPTT (with battery)	40 g
	Power supply of DWPTT	CR2450 3,0V lithium battery
	Dimensions of DWPTT	64 x 40 x 18 mm
	Weight of DWPTT (with battery)	53 g

* option

The radio complies with the NO-06-A107 and MIL STD-810G environmental standards and provides IP67 protection.



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Note: The given parameters are not binding specifications. The company reserves the right to change the technical parameters of the device.
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