AES encryption

frequency hopping

data transmission

GPS

selective calling

durability, resistance to heat, cold, humidity

long autonomous operation
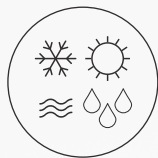
50 W amplifier

mobile set

Some optional features are only available on certain models.

WB GROUP

Handheld Radio
3501

Operation in harsh environmental conditions

The equipment can be used in very harsh environment in any region of the world. A robust die-cast aluminium housing provides tightness and resistance to dust, sand, water and humidity. It withstands shocks and vibrations, immersion, heat, cold and thermal shocks.
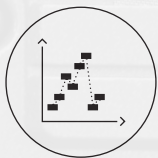
User friendly

Two switches and two buttons are required for the radio operation. The user can program up to 10 channels. Clear LCD display shows current settings and radio status. The radio has a built-in test program and the message about the detected errors is displayed on the LCD. The audio accessories, antennas and harnesses to carry the radios are designed to allow a soldier to move freely on the battlefield and they do not restrict movement.
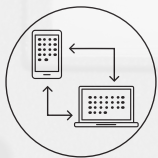
Encryption

Radio can be equipped with analog or digital scrambler. A high transmission security is ensured thanks to a digital encryptor based on the AES algorithm. The availability of 10 encryption keys selected by the user from the radio menu enables to create mutually separated conversation groups.

Frequency hopping

The radio can be equipped with software enabling transmission using frequency hopping and TRANSEC protection. The use of frequency hopping provides a higher degree of transmission security, increases resistance to intentional jamming and minimizes the possibility of transmission interception.

Data transmission

Depending on the radio version the following internal modems are avaliable:
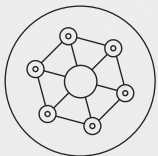
- FFSK/ 4LFSK modem (configurable): 1.2 / 2.4 / 9.6 / 19.2 kb/s

- GMSK modem: 16 kb/s

Radios in versions 8 and 10 are equipped with an asynchronous modem, which enables the connection of virtually any external data source (terminals, drivers, computers, etc.). When analog channel is in use, switching to data transmission is automatic.

Built-in GPS receiver

Received geographical position can be displayed and send to supervisory radio automatically or on the operator's demand.
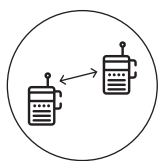
Selective call system

Depending on the version radio provides selective communication between single users or between groups of users. Individual or group calls are possible. There is possibility to choose between 81 individual selective calls numbers and to create up to 9 groups of 9 users each.

SDS

Short Data Service (SDS) transmission is implemented by sending three-digit number which has been assigned particular meaning in the system. Radio enables sending up to 256 short messages.
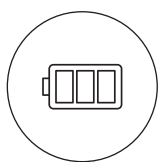
Radio programming and management

Frequency, transmission type, channel number and output power level can be programmed for each of 10 channels. It can be done manually without any other external accessories using only switches and buttons of the radio. For quick programming of channels parameters, a fill gun containing those data can be used. Cloning the radio, which means quick duplication of recorded configuration parameters from one radio to another, is also possible. It can be done by connecting of two radios by dedicated cable.

Quick erasure of preset channels parameters is also possible (emergency erasure of settings).

There is also a configuration software available, installed on PC computer, which enables easy set up of the radio. For the radios in versions 8 and 10, a management software enables complete radio functional control including special functions management like "quiet inquiry", stun and radio revive. These functions are available by using radio selective call system.

Vehicle adapter

Battery charger

Batteries

Three types of batteries are available for the radio:

· NiMH battery 7.2 V/2000 mAh

· Li-Ion battery 7.2 V/4400 mAh

· Li-Ion battery 7.2 V/6700 mAh

Programmer (Fill Gun)

Wide range of accessories

· Headset without PTT button

· Headset with finger PTT button

· Headset with elbow and finger PTT buttons

· Handset with PTT button (for vehicle adapter only)

· Battery chargers

· Antennas: long, medium and short

· Programmer (Fill Gun)

· Vehicle adapter

· Power amplifier 50 W

· Cases

Headset

Technical specification

Frequency band	**30.000 to 87.975 MHz**
Output power	**5.0 or 3.0 / 1.0 / 0.1 W** (depending on the version)
No. of channels	**2320**
Programmable channels	**10**
Data transmission rates	**1.2 / 2.4 / 9.6 / 19.2 kb/s**
Weight (with Li-Ion battery)	**940 g**

Handheld radio in vehicle adapter

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