

## Software Defined Radio R3507

R3507 is SDR (Software Defined Radio) class transceiver. This radio is a multisystem communication device with parameters configurable by software (waveform). The R3507 provides interoperability between military forces (Army, Navy, Air Force) and ensures communication with civil services such as police, fire service, medical rescue etc. Thanks to SCA (Software Communication Architecture) interface radio is ready for implementation of different dedicated waveforms.

The transceiver operates in military and civil radiocommunication networks such as:

- military digital systems with spread spectrum and fixed frequency transmissions (according to STANAG 4203, 4204, 4205)
- analogue radiocommunication systems of AM and FM modulation
- civil analogue and digital systems



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- fixed frequency analogue voice transmission
- fixed frequency and hopping frequency (up to 1000 hop/s) digital voice transmission
- data transmission with rate up to 16/64kbit/s (with HDR modem up to 1Mbit/s)
- voice and data encryption (AES/256)
- GPS positioning (built-in GPS receiver)
- Selective Call System of various types
- operation with analogue and digital external devices through built-in interfaces: AUDIO,RS232, USB, Ethernet 10/100, Wi-Fi, Bluetooth, CAN
- retransmission set
- vehicle set with additional power amplifier (up to 50W)
- remote control of the transceiver
- IP addressing

## General parameters:

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| ■ frequency band                       | 20 ÷ 520 MHz                               |
| ■ channel spacing                      | programmable                               |
| ■ output power                         | programmable, max. 5W (FM) and 4W-PEP (AM) |
| ■ modulation                           | AM, FM digital modulations                 |
| ■ receiver sensitivity                 | < 0,5 µV                                   |
| ■ environment conditions               | MIL STD 810F                               |
| ■ compatibility                        | NO-06-A200                                 |
| ■ weight with battery pack and antenna | < 1000 g                                   |
| ■ dimensions (without antenna)         | 220 x 86 x 44 mm                           |