



R-176-1AM

New Solution for Interference-Free Long-Range Radio Communications

The fifth generation of digital radio communication means that implement software methods for improving stability and noise immunity of communications using SDR (Software Defined Radio) technology.

The radio station is designed to establish radio communication between units' command posts and higher field and stationary command posts.

The system's distinguishing feature is the ability to work in three wavebands HF - VHF - UHF using all classical types of modulation.

The R-176-1AM can be integrated into the radio centers of communication systems of various branches and services, used as a unified interservice and interdepartmental tool for organizing interaction.

The use of adaptive algorithms for establishing and maintaining radio communications, as well as digital signal processing technologies, made it possible to radically solve the problems of poor communication quality and negative impact of atmospheric interference in the HF band.

Main characteristics:

- Operating frequency ranges, MHz:
 - HF: 1.5...30
 - VHF: 30...108
 - UHF: 1,500...1,750
- Transmitter output power, on the move / stationary, W:
 - HF, VHF: up to 500/up to 1,000
 - UHF: up to 1/up to 1
- Communication range, on the move / stationary, km:
 - HF: up to 300/up to 2,000
 - VHF: up to 50/up to 80
 - UHF: up to 6/up to 9
- Crew: 3
- Transport base: KAMAZ-5350
- Preparation time, on the move / stationary, min: no more than 5 / 90





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