High level of ECCM protection

Simultaneous voice and data transmission (I-MUX mode)

High data transmission rate: up to 42,66 kbit/s

Modular construction

WB GROUP

RRC radios

F@STNET family

F@stnet radios are intended for sub-units of various types of troops to maintain radio communication at the tactical level. These are modular radios, i.e. the same transceiver is part of both the backpack and mobile versions. Appropriate accessories allows the use of the radio by a soldier carrying the radio in a backpack, as well as its installation it on every type of combat platforms (mobile and stationary).

F@stnet radios are programmable narrowband devices that can operate in the frequency hopping modes. They are characterized by a high degree of protection against EPM (ECCM). Digital voice and data transmission are encrypted using COMSEC cryptographic keys. The radio transmission is masked with the TRANSEC key.

The radios are equipped with an IP router and the R@dnet software that enables simple, quick and effective preparation of the radio to work in systems that base on packet transmission with the IP protocol. The devices are also equipped with a built-in GPS receiver, thanks to which it is possible to report positions to the commander's radio stations, which can be shown on a digital map along with the radio's number.

TECHNICAL SPECIFICATION

Frequency band	30 ÷ 87,975 MHz, 2320 channels 25 kHz	
Frequency stability	± 2 ppm	
Attenuation of harmonic frequencies	> 60 dBc within 30-88 MHz	
Sensitivity	-113 dBm	
Transmission modes	FH, FFH (Frequency Hopping – 300 hops/s)	
	FCS (Free Channel Searching)	
	MIX (Mixed Mode – FFH or FCS)	
	DFF (Digital Fixed Frequency)	
	AFF (Analog Fixed Frequency)	
Data services in FFH	sync data transmission	up to 42,66 kbit/s
	async data transmission	up to 38,4 kbit/s (CNR)
	IP packet transmission	19,2 kbit/s (IP/PAS)
	simultaneous data and voice transmission	4,8 kbit/s (I-MUX)
GPS position report service	manual or automatic	
Remote control	SNMP agent	
	PARR/PROTEE/SYCOMORE (PPS)	
Analogue fixe frequency interoperability	F3E modulation (STANAG 4204)	
	FFH communication (STANAG 4292)	
Data interfaces	Ethernet 10 Mbit/s base-T	
	serial interface IP/PPP	
	serial interface RS232	

RRC 9210

MANPACK RADIO

It is designed to be carried by a soldier in a backpack, but can also be installed in a light patrol vehicle. It features all functions necessary on the modern battlefield, i.e. data transmission for file transfer, exchange of messages and orders; GPS coordinates reporting and showing on the digital map. Handset and a loudspeaker or a headset can be used for voice communication.

RF output power	0,5 W; 5 W; 10 W (booster)
Power supply	Li-Ion battery
Dimensions	264 x 84 x 184 mm
Weight (only transceiver)	3,4 kg
Operating temp. range	-40°C ÷ +70 °C
Mechanical and environmental requirements	meets the MIL STD 810 in terms of resistance to salt, fog, cold, dust and sand

BASIC SET

- Transceiver RRC 9210
- VHF antenna
- GPS antenna
- Li-Ion battery
- Loudspeaker
- Handset
- Carrying backpack

RRC 9310AP

VEHICLE RADIO

It is designed for installation on all combat platforms – mobile and stationary. It consists of a RRC 9210 transceiver and 50 W power amplifier. It is easy to install in vehicles. Can be installed on a mounting plate with or without shock absorbers. The vehicle radio features collocation filters that enable simultaneous operation of two radios in the same vehicle.

RF output power	0,5 W; 5 W; 50 W
Voltage input	18 ÷ 33 V DC
Dimensions	290 x 139 x 340 mm
Weight with amplifier	< 14 kg
Operating temp. range	-40°C ÷ +70 °C
Mechanical and environmental requirements	meets the MIL STD 810 in terms of resistance to salt, fog, cold, dust and sand

BASIC SET

- Transceiver RRC 9210
- RF amplifier
- Mount support without absorbers
- VHF antenna with GPS antenna
- GPS antenna
- Cables for: antenna, GPS antenna, power supply
- External loudspeaker
- Handset

Optional equipment for RRC 9210

VHF antennas

Tactical backpack: PTOR 2015 M or PTOR2015 D

Handset with manipulator

Transmission and retransmission cables

Head sets

Vehicle adapter

Battery charger

Power amplifier for battery charger

TRC9724 programmer

R@dnet, TRC9721 software

Optional equipment for RRC 9310AP

VHF antennas

Mount support with absorbers

Transmission and retransmission cables

Programmer TRC9724

Programming kit R@dnet

Programming kit TRC9721

www.wbgroup.pl

RADMOR WB GROUP

RADMOR S.A.
ul. Hutnicza 3, 81-212 Gdynia, Polska
t: +48 58 7655 666 | f: +48 58 7655 662
market@radmor.com.pl

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