



**WB GROUP** 

FAMILY PR4G F@STNET

Tactical VHF ECCM 10W  
Manpack Radio  
***RRC 9210***

**The RRC 9210 is a software-defined manpack radio with built-in IP module and GPS receiver. It is intended to provide radio communications at the tactical level for subdivisions of various types of troops. It is easy to install in light patrol vehicles.**



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High level of ECCM protection

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Simultaneous and independent voice and data transmission using one single channel (mode I-MUX)

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

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High voice quality by means of MELP vocoders (600,1200,2400) STANAG 4591, LCP(800,2400,4800) – STANAG 4198, STANAG 4479, 16 kbit/s CVSD EUROCOM16

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Interoperability with every radio of PR4G family

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Running time of the radio from the fully charged battery is not less than 8 hours (assuming the ratio: transmit: receive: listen = 1: 1: 9)

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The next-generation RRC 9210 F@stnet is a high frequency hopping (FFH), fast data transmission and high level of Electronic Protective Measures (ECCM). The radio is equipped with an IP module and an internal GPS receiver.

I-MUX mode enables simultaneous and independent transmission of speech and data between radio network users. It is possible to remotely manage the radio and configure it via the built-in SNMP agent. The RRC9210 feature vocoders that conform to the STANAG standards, allowing for good voice transmission parameters at the limits of the communication range. Digital voice and data transmission is encrypted using COMSEC cryptographic keys. Radio transmission is masked

by the TRANSEC key. Data transmission can be conducted in CNR, I-MUX, IP / PAS and TDMA modes – static or triggered.

The RRC 9210 is interoperable with the PR4G family and other Combat Net Radio (CNR) radios that meet STANAG 4204.

The radio can work with many peripherals and accessories that were used with the RRC9200 radio.

## Technical specification

Frequency band	30 ÷ 87,975 MHz
Channel spacing	25 kHz
2320 channels	
RF output power	0,5 W; 5 W; (10 W booster)
Frequency stability	± 2 ppm
Attenuation of harmonic frequencies	>60 dBc within 30-88 MHz
Sensitivity	-113 dBm
Use in proximity	9 % frequency spacing with 26 dB decoupling between antennas
Power supply	Lithium-Ion battery
Dimensions (W x H x D)	264 x 84 x 184 mm
Weight (only transceiver)	3,4 kg
Operating temperature range	-40°C do +70°C
Mechanical and environmental requirements	Watertight (immersion 1m for 2 hours). Meets the requirements of MIL STD 810 in terms of resistance to salt, fog, cold, dust and sand.
Transmission modes	FFH (Fast Frequency Hopping at 300 hops/s) FCS (Free Channel Search) MIX (Mixed mode: FFH or FCS) DFF (Digital Fixed Frequency) AFF (Analog Fixed Frequency)
Voice services in Frequency Hopping	16 kbit/s CVSD 4800 bit/s I-MUX 2400 bit/s (STANAG 4198) 800 bit/s (STANAG 4479) 2400 bit/s (STANAG 4591 MELP)
Data services in Frequency Hopping	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 fixed frequency interoperability	F3E modulation (STANAG 4204) FFH communication (STANAG 4292)

## Data interfaces

Ethernet 10 Mbps Base-T
Serial interface PPP: V24/V28 115,2 kbps
Serial interface PPS: RS 232

## Radio basic set

Transceiver RRC 9210
Short antenna (1,6 m)
Loudspeaker HPE 108-14
Li-Ion battery
Handset COT 207
Carrying backpack
GPS antenna



## Optional equipment

Accessories	Universal NiCd / Li-Ion battery charger
	Handset with manipulator TRC 9750A
	Transmission cable 064188/2
	Transmission cable CBF 311C
	Tactical backpack of the radio operator PTOR 2015 M or PTOR2015 D *
	Headset sets
	Vehicle adapter set
Antennas	Long, folding antenna (2,9 m)

\*available on request



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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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