

RRC 9210 Tactical Manpack Radio



- high level of ECCM protection
- simultaneous and independent voice and data transmission using one single channel (Multiplex)
- high data transmission rate: up to 42,66 kbit/s
- high voice quality by means of MELP vocoder (Stanag 4591)
- IP controller and built-in GPS receiver
- interoperability with all radios of PR4G family
- extended battery life: up to 24 h

RRC 9210 is a manpack hopping transceiver of a new F@stnet generation with a high rate data transmission and a high level of ECCM protection.

The radio is fitted with IP controller and built-in GPS receiver. New transmission mode called MULTIPLEX is available for simultaneous and independent voice and data transmission in the tactical net.

Thanks to the new features **RRC 9210** radio can be a component of tactical internet network.

Remote management of the radio is possible via standard SNMP protocol.

RRC 9210 radio has a vocoder of three different coding rates and is also equipped with TDMA mode.

It is interoperable with all radios of PR4G family and uses many of the same peripherals and accessories.

New functionalities

- high rate data transmission (up to 42.66 kbit/s)
- packet data transmission up to 19.2 kbit/s (PAS service)
- IP card
- built-in GPS receiver
- simultaneous and independent voice and data transmission (Multiplex mode)
- simple radio to battlefield computer connection thanks to Ethernet TCP-IP interface and PPP protocol
- remote management via a standard SNMP protocol

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Technical data:		
Parameter	Unit	RRC 9210
Frequency range	MHz	30 ÷ 88
Power	W	5 / 0,5
		10 (w with booster)
Number of channels		2320
Channel spacing	kHz	25
Number of programmable cryptographic keys		14
Number of programmable frequency plans		7
Modulation		F3 STANAG 4204 (analog modes)
		SCR4 (digital modes)
		8CMP (high rate digital modes)
Operating modes		analog (AFF, SCAN)
		digital (FH, FCS, MIX, DEF)
Digitized voice transmission (clear or encrypted)		800, 2400 i 4800 bit/s (Vocoder compressed)
		16 kbit/s (CVSD coded)
Data transmission (clear or encrypted)		synchronous data transmission at rates from 50 bit/s to 42,66 kbit/s
		asynchronous data transmission at rates from 50 bit/s to 38,40 kbit/s
		packet data transmission at rate 4800 bit/s through PPS interface or at rates up to 19,20 kbit/s through IP interface
Interoperability with VHF/FM radios		in fixed frequency analog modes (STANAG 4204)
Power supply	V	14,4 (11÷30)
Current consumption (without optional pcbs):		
- reception	mA	420
- transmission (at power 5W)	A	2,2
Autonomy	h	24 (with Li-Ion rechargeable battery)
Frequency stability	ppm	±2
Attenuation of harmonic radiations	dB	≥58
Sensitivity	µV	±0,5
Audio output power	W/Ω	>0,5/4
Audio bandwidth	Hz	300 ÷ 3000
Weight	kg	±3,4
Dimensions	mm	264 x 84 x 184
Operating temperature range	°C	-40 ÷ +70
Relative humidity	%	95
Tightness		immersion-proof under 1 m of water for 2 hrs
Electromagnetic compatibility		compliant with military standard MIL STD 461D