



**WB GROUP** 

PR4G F@STNET FAMILY

Tactical VHF/FM-FFH 50W  
Vehicle Radio

***RRC 9310AP***

## Tactical VHF/FM-FFH 50W Vehicle Radio **RRC 9310AP**

**The RRC 9310AP is a software-defined on-board radio with built-in IP module and GPS receiver. It is designed to provide radio communications at the tactical level. It is easy to install on all types of combat platforms - mobile and fixed.**



High level of ECCM protection

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PLUG and PLAY concept when using RRC9210 transceiver

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Simultaneous voice and data transmission (I-MUX mode)

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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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Easy to assemble in all types of combat vehicles

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Interoperability with all radios of PR4G family

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The new generation RRC 9310AP F@stnet is a high frequency hopping (FFH) radio station with high data transmission rate and a high degree of electronic counter countermeasures (ECCM). This is a modular device consisting of the RRC 9210 transceiver and the amplifier from radio RRC 9500. 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. The RRC 9310AP has an IP module built into it and can be part of a tactical teleinformatic network (Tactical LAN). It is possible to remotely manage the radio and configure it via the built-in SNMP agent.

Vocoders used by RRC 9310AP meet STANAG standards, allowing to keep good voice transmission parameters at the limits of communications 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.

## Technical specification

Frequency band	30 – 87,975 MHz Channel spacing 25 kHz, 2320 channels
RF output power	0,5 W; 5 W; 50 W
Frequency stability	± 2 ppm
Harmonic radiation	Protection better than 67 dBc within 30-88 MHz
Sensitivity	-113 dBm
Use in proximity (agile cosite filters)	7 % frequency spacing with 15 dB decoupling between antennas
Voltage input	18 to 33 VDC
Dimensions (W x H x D)	290 x 139 x 340 mm
Temperature range	Operational from -40°C to +70 °C
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 (FFH)	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 modem do 42,66 kbit/s Async Data modem do 38,4 kbit/s (CNR) IP Packet transmission 19,2 kbit/s (IP/PAS) Simultaneous voice and data transmission 4,8 kbit/s (I-MUX)
GPS position report service	manual or automatic
Remote control	SNMP remote control PARR/PROTEE/SYCOMORE(PPS)
Analogue fixed frequency interoperability	F3E modulation (STANAG 4204) FFH communication (STANAG 4292)

The RRC 9310AP radio is interoperable with PR4G family radios and other Combat Net Radio (CNR) radios meeting STANAG 4204 standards.

The radio can work with many peripherals and accessories that were used with the RRC 9500 radio.

## 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

RF amplifier WZM 126AP

Mount support without shock absorbers SUB 188A-R

Handset COT 207-14R

VHF antenna with GPS antenna

Antenna cable (3 m)

GPS antenna cable (3 m)

Power supply cable (3 m)

External loudspeaker HPA 111-14A

## Optional equipment

Accessories Smart handset TRC 9750A

Headsets

Retransmission cable CBF 295

Retransmission cable CBF 311C

Antenna VHF end-fed antenna\*

VHF center-fed antenna\*

Mount support Mount support with shock absorbers SUB 188 2R

\* available with built-in GPS antenna



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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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