Tactical radio communications

Precise and quick data transmission along with security and reliability in the most extreme conditions are crucial on the contemporary battlefield. WB GROUP offers a range of **innovative communication & command systems**, delivering its products to armies worldwide.

Highly versatile, carefully designed **military and commercial radios** are distinguished by their reliability, maintainability and full alignment to the operational needs.

This makes a **fully integrated communication** and command network that enables management of all types of armed and uniformed forces.

HANDHELD   MOBILE   MANPACK   HF RADIOS

COMP@N Handheld SDR Radio

COMP@N radio provides a comprehensive security in the range of TRANSEC, NETSEC and COMSEC mechanisms based on AES-256 algorithms and additional usage of SCIP technology (STANAG 5068).

Frequency range	30 ÷ 520 MHz
Output power	Up to 5 W
Hopping	50 hop/s or 300 hop/s
Available versions	H07 digital voice transmission
	H09 BMS IP WF MANET waveform

3501 Handheld Radio

The radio features 10 programmable channels and is equipped with a LCD display showing the current settings and radio status.

Frequency range	30.000 ÷ 87.975 MHz
Output power	5 W; 1 W; 0,1 W
Modulation	F3E, F2D
Channels number	2320
Programmable channels	10
AES 256 bit encryption	
Frequency hopping	

R35010 Handheld Soldier Personal Radio

The smallest radio available on the market intended for communication between team members or combat teams in small radio networks.

Frequency range	2405 ÷ 2480 MHz (ISM band)
Transmitter RF power	650 mW; 400 mW; 50 mW; 10 mW
Max data rate	125 kb/s
Modulation technique	DSSS
Power supply	2 x AA batteries
Voice encoding method	CVSD
Voice and data transmission	
Conference mode (full duplex)	
Wireless PTT switch	

PERAD 6010 Broadband Personal Radio

A low power spectral density of the communication signal, frequency hopping and built-in encryption algorithms provide an effective barrier to prevent unauthorized signal detection and capture. PERAD 6010 is IP and SDR personal radio.

Frequency range	UHF band or L-Band
RF Output power	1 W average
Data rate	Up to 1 Mbit/s
Waveform / Modulation	HDR COFDM Waveform Bandwidth 1.2 MHz SDR radio
Sensitivity	< -102 dBm @ BER < 10e-6

COMP@N Mobile SDR Radio

Mobile adapter is a device which enables the use of COMP@N handheld radio in vehicles (e.g. light tanks, armoured personnel carriers). This set provides a secure attachment and a possibility of easy removing.

Frequency range	30 ÷ 520 MHz
Output power	Up to 50 W
Input voltage	17 ÷ 33 V
Dimensions	270 x 180 x 187 mm

V3501 Mobile Radio

Vehicle accessories enable easy installation of the 3501 handheld radio in a vehicle and to power it from the 12 V or 24 V on-board network. The amplifier allows a power output up to 50 W which significantly extends the communication range.

Frequency range	30.000 ÷ 87.975 MHz
Output power	Up to 50 W
Data transmission rate	1.2 / 2.4 / 9.6 / 19.2 kb/s or 16 kb/s depending of transceiver version
Modulation	F3E, F2D
Channels number	2320
Programmable channels	10

RRC 9310AP Mobile Radio

The RRC 9310AP is a software-defined on-board radio with a 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.

Frequency range	30 ÷ 87.975 MHz, 2320 channels 25 kHz
Output power	50 W; 5 W; 0,5 W
Quick data transmission	Up to 42.66 kbit/s
Frequency stability	± 2 ppm
Sensitivity	-113 dBm

RRC 9210 Manpack Radio

The next-generation RRC 9210 F@stnet is a high frequency hopping (FFH), fast data transmission and high level of Electronic Protective Measures (ECCM).

Frequency range	30 ÷ 87.975 MHz, 2320 channels 25 kHz
Output power	0.5 W; 5 W; (10 W booster)
High level of electronic counter-countermeasures (ECCM)	
Simultaneous voice and data transmission (I-MUX mode)	
Quick data transmission	Up to 42.66 kbit/s
Frequency stability	± 2 ppm

SENTRY-H HF Radio

Software Defined Radio designed for tactical base and mobile deployment. Designed for secure, long distance voice and data transmission.

Frequency range	Transmit	1.6 ÷ 30 MHz
	Receive	250 kHz – 30 MHz
Output power		150 W
Channels		Up to 1000, 500 programmable contacts
Networks		Up to 20 (simultaneous scanning)
Software Defined Radio		

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