



WB GROUP 

Software defined radio

COMP@N H09



The COMP@N H09 is a SDR handheld radio, developed using a common hardware platform for all COMP@N family radios. This COMP@N radio has implemented among others MANET class waveform which allows simultaneous voice and data transmission (IP, sensor, RS232, GPS, Situation Awareness).



COMP@N H09 Waveforms

BMS IP WF narrowband MANET (Mobile Adhoc NETWORK) waveform that supports services required by battelfiled management systems

FM/AM fixed frequency interoperable with devices that support STANAG 4203/4204/4205

Technical specifications

COMP@N H09 Waveforms

BMS IP WF	MANET class waveform	mobile self-configuring and self-organizing network
		extended range of services (retransmission within waveform – multihop relay)
		operation in IP networks, build-in IP router, QoS supporting
	operating modes	FH (Frequency Hopping) FF (Fixed Frequency)
	simultaneous voice and data services	
	voice services	digital voice (e.g. MELPe 2400, CODEC2)
		group calls
		privileged users
		priority calls (break-in)
		double PTT
		multi-hop voice
	data services	IP data
		Serial data
		SA (Situation Awareness) messages
		GPS reports
short text messages		
sensor data		
files, video, pictures, mail transmission supporting		
synchronization without GNSS (e.g. GPS)		
modulation	CPM	
channel	50 kHz with possible extension (e.g. 25 kHz, 75 kHz)	
security (AES-256 based)	TRANSEC	
	COMSEC	
	NETSEC	
data rates	up to 40 kb/s	
definable frequency range and sub-bands		
pre-defined BMS IP WF profiles with set of mission parameters (radio data, encryption keys)		
FM/AM fixed frequency	modulations	FM, AM
	transmission modes	F3E, A3E
	channel	FM: 25 kHz
		AM: 8.33 kHz, 25 kHz
	scquelch	

COMP@N SDR Platform

General	a large color display	
	auto backlight intensity regulation	
	menu	
	double PTT button	
	backlit keyboard	
	Emergency Clear button	
	build-in GPS receiver	
	dimensions (without antenna)	220 x 86 x 44 mm
	weight (with battery and antenna)	~ 1000 g
	with amplifier and car adapter creates 50 W vehicular set	
RF	frequency range	20 ÷ 520 MHz
	output power	up to 5 W
	3 definable output power levels	
	suppression of harmonics	> 50 dBc
	frequency stability	± 1 ppm
	sensitivity	- 116 dBm (SINAD 20 dB)
	adjacent channel selectivity	≥ 50 dB
	Interfaces	
Audio / PTT		
RS232		
Ethernet 10/100		
USB		
CAN		
Side Connector (to work with COMP@N accessories)		
Environmental parameters	operational temperature	32°C ÷ +55°C
	immersion 1 m for 2 hours (MIL-STD-810G)	
	MIL-STD-810G	
	EMC MIL-STD-461F	



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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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