

BNET-HHTM (Hand Held)

Broadband IP Software Defined Radio

BNET is a unique Software Defined Radio & Network architecture enabling the future of digitized warfare by delivering wideband, with low delay and reliable connectivity

BNET – HH is modular multiband SDR for dismounted soldier.

BNET brings to the battlefield groundbreaking capabilities based on RAFAEL's multi channel reception technology.

By simultaneously receiving and processing hundreds of MHz's and merging them into a single IP network BNET provides unprecedented network capacity in terms of data rates, number of users and minimal delay.

BNET has the ability to cognitively manage the scarce spectrum resources providing seamless force merge and minimal planning with efficient spectrum usage.

BNET's highly advanced, S.C.A compliant, radio platform supports user defined & custom waveforms.

Benefits

- Multi-Band, IP, Software Defined Radio
- Multi Channel Reception MANET Waveform
- Ultra High Capacity
- Low Delays
- High Scalability +1000 Users
- High Level of Integration
- Software Defined Radio
S.C.A 2.2.2 Compliant



Technical Specifications

General	
IP	Layer 3 IP Radio
ECCM	Frequency Hopping Spread Spectrum techniques Networking ECCM capabilities Error detection and correction
COMSEC	Built in AES - 256 encryption /integration with costumer encryption measures
Frequency Range	30-512 MHz Optional L-band, S-band (Through add-on mission module)
Compute Platform	Optional powerful compute platform and open architecture run time environment for RAFAEL's and/or 3'rd party applications
Main Waveforms	AM, FM Narrow Band Networking: Channel spacing: 25KHz, Optional: Custom spacing per user request Wide Band Networking: BNET MCR WF: Channel spacing: 1.25MHz, 2.5 MHz, 5 MHz UHF SATCOM, Custom WF's supported
BNET Waveform Network Capability	More than 100 Mbps Overall capacity , Up to 10 Mbps Upload Rate Per User
Software Architecture	Software Defined Radio, SCA 2.2.2 compliant RAFAEL waveform development suite and support available as an option
Optional	Integrated LTE & WIFI Support
Radio Network Management System	Radio monitoring & configuration over the air

Transmitter	
RF Heads	1
RF Power Output	Up to 5 Watt
Self Protection	VSWR, Over temperature Power reduction (automatic)

Power	
Power Input	7.2 V nominal

Specifications	
Dimensions (without battery) HxWxD	14.8X7.5X4.5 [cm]
Weight	700gr (without battery)

Environmental	
Operating Temperature	-40° ÷ +55° C
Storage Temperature	-40° ÷ +71° C
Standards	Comply with MIL-STD-810G IP 67, MIL-STD-461E/F

Interfaces	
External Data	USB 2.0, 10/100 Ethernet, RS232
Audio	Analog Audio: via MIL-DTL-55116 connector (Handset, Speaker) Digital Audio: via Ethernet (VoIP/SIP/USB)