DND
Digital

BNET-HH

MODULAR MULTIBAND SDR
FOR DISMOUNTED COMBAT

BNET PLATFORM

A peak-performance broadband IP SDR, delivering mesh ad-hoc networks (MANET) on battalion level. By using the unique Multi-Channel-Reception Technology BNET SDR deliver an extreme data throughput with minimal latency.

The BNET-HH soldier radios meet future requirements for high-performing tactical collaboration in real-time.

PRODUCT FEATURES

BNET-HH (Hand Held)

- Layer 3 IP MANET SDR
- Multiband-SDR (SCA 2.2.2 Standard)
- Patented Multi-Channel-Reception Technology
- Scalable Mesh Ad-hoc Networks (MANET) with up to 1000 users at very low latency
- ECCM
  - Frequency Hopping Spread Spectrum techniques
  - Networking ECCM capabilities Error detection and correction
- COMSEC
  - Built in AES-256 encryption / integration with customer encryption measures
- Frequency Range
  - 30-512 MHz, optional L-Band and/or S-Band
- Standard and powerful Compute Platform Supporting own and 3rd Parties Applications
- Interaction with existing legacy radios

ADVANTAGES

- Multi-Channel-Reception MANET Waveform
- Ultra High Capacity
- Low Delays
- High Scalability
- Software Defined Radio S.C.A 2.2.2 Compliant

SUPPORTED WAVEFORMS:

- AM, FM
- Narrow Band Networking: SC; Channel spacing: 25KHz, Optional: Custom spacing per user request
- Wide Band Networking: BNET MCR WF: OFDM, SC; Channel spacing: 1.25MHz, 5MHz, Optional: Custom spacing per user request
- UHF SATCOM, Custom WF´s supported
- More than 100 Mbps Overall capacity, Up to 10 Mbps Upload Rate Per User
- Integrated LTE & WIFI Support
- Radio monitoring & configuration over the air

SPECIFICATIONS

RF Power Output	Up to 5 Watt
Power Input	5.8 Ah Li-Ion Battery / 12 hours battery life
Dimensions (without battery) H x W x D	14.8 x 8 x 4.5 [cm]
Weight (with battery)	1.0 kg
Operating Temperature	-40°C up to +55°C
Storage Temperature	-40°C up to +71°C
Standards	MIL-STD-810G IP 67, MIL-STD-461E/F
Interfaces	■ External Data: USB 2.0, 10/100/100 Ethernet, RS232 ■ Control: Panel, SNMP ■ Antenna Port: VHF/UHF: TNC, GPS: SMA ■ Analog Audio: via MIL-DTL 55116 connector (Handset, Speaker) Digital Audio: via Ethernet (VoIP/SIP)

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We focus on digital technology