DND
Digital

BNET-V

MODULAR MULTIBAND SDR FOR VEHICLES

BNET PLATFORM

SCA 2.2.2 compatible broadband IP MANET SDR network platform.
By using the unique Multi-Channel-Reception Technology, BNET SDR deliver an extreme data throughput with minimal latency. Ample resources for edge-computing based on open standards enable wide interoperability.

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

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PRODUCT FEATURES

BNET-V (Vehicular)

- Layer 3 IP MANET SDR
- Multiband-SDR (SCA 2.2.2 Standard)
- Scalable Mesh Ad-hoc Networks (MANET) with up to 1000 users
- Up to 3 Independent RF Heads (50W)
- Standard Open Architecture (VITA 65) Supporting additional RF, Compute & Storage Modules
- 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
- Modularity
  - Up to 3 Independent RF Heads (50W)
  - Standard Open Architecture (VITA 65) Supporting additional RF, Compute & Storage Modules
- Standard and Powerful Compute Platform Supporting own and 3rd Parties Applications

ADVANTAGES

- Future-proof Multi-Band IP MANET Software Defined Radio (SDR)
- Unique Multi-Channel-Reception Technology
- Extremely high Network capacity (up to 100Mbit/s, up to 10Mbit/s Upload rate per user)
- Very low latencies
- High scalability (up to 1000 users)
- Easy integration with exsisting systems and platforms

SPECIFICATIONS

Power Output	Up to 50 Watt
Power Input	24 VDC / 15A (typical) according to MIL-STD-1275D/E
Power Consumption	700W Max
Dimensions WxHxD	35x31x15 [cm]
Weight	<15kg
Operating Temperature	-40°C up to +55°C according to MIL-STD-810F
Storage Temperature	-40°C up to +71°C according to MIL-STD-810F
Standards	MIL-STD-810F IF 67. MIL-STD-461E/F
Interfaces	■ External Data: USB 2.0, 10/100/100 Ethernet, RS232/422 ■ Control: Front-Panel, SNMP ■ Antenna Port: TNC, GPS ■ Audio: Standard Audio Analog & Digital (VoIP) Standard MIL-DTL 55116 connector, 6W

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
- Integrated LTE & WIFI Support

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