The Viasat Battlefield Awareness and Targeting System-Dismounted (BATS-D) AN/PRC-161 radio fuses air and ground situational awareness in the palm of your hand. This ruggedized, handheld radio delivers real-time Link 16 communications to dismounted warfighters at the tactical edge. The radio can be used vest-worn, handheld, or mounted, and is ideal for bringing full Link 16 network access to ground forces including Joint Terminal Attack Controllers (JTACs), Forward Air Controllers (FACs), and Tactical Air Control Party (TACP) specialists.

The Viasat BATS-D radio bridges the critical gap between air and ground forces by providing real-time fused Situational Awareness (SA) to coordinate and maneuver assets instantaneously. This handheld radio arms dismounted JTACs and FACs with a direct connection into the Link 16 network to digitally call for fire and provide all nodes with accurate SA in a joint integrated air/ground common operational picture.

The AN/PRC-161 offers edge users access to both air and ground (friendly and enemy) situational data and can provide secure, reliable target data and position location, identification, and status information to the network. The radio also features J-Voice capability for direct voice communications with other Link 16 users. This direct link between ground warfighters and Close Air Support aircraft dramatically shortens the kill chain and decreases the risk of fratricide. The Viasat BATS-D enables JTACs to Find, Fix, and Finish the target at an exponentially faster rate with greater accuracy than ever before.

CONFIGURABLE FOR A VARIETY OF OPERATIONS:

- **Autonomous Link 16 Untethered Mode** Enter the network without user interaction and transmit Precise Participant Location and Identification (PPLI) to the network including emergency indication if needed
- **Light Tethered Mode** Nett Warrior, USB, or Ethernet cabled to a tablet or other device to access Cursor-on-Target (CoT) information and exchange it with the Link 16 network
- **Fully Tethered Mode** Nett Warrior, USB, or Ethernet cabled to a tablet device or laptop computer to exchange/display situational awareness data (PPLI) and Platform J host data with the Link 16 network

**BATS-D AT-A-GLANCE**

**Mission Flexibility**
- Fully functional Link 16 radio
- Handheld/small form factor
- Embedded SAASM GPS
- Standardized quick-change rechargeable battery
- J-Voice and Platform-J data capable
- Built-in keypad/display
- Voice PTT Key and mic/speaker
- Link 16 enhanced throughput
- Extremely low size, weight, and power
- Jam resistant for anti-access/area-denial (A2/AD) environments
- Coalition interoperable
- Rugged design (MIL-STD 810-F)

**Situational Awareness**
- Friendly force tracking
- Provides air and ground common operational picture
- Tethered mode can interface with:
  - Tactical Radio Extension (TRAX); Android/Windows
  - Tactical Assault Kit; Air Defense Systems Integrator (ADSI®); Joint Range Extension (JRE); Gateway Manager; LinkPRO®
  - ATAK; KILLSWITCH; APASS; DASS; WINTAK

**Command and Control**
- J12 mission management to any non-C2

**Target Attack**
- Digitally-aided Close Air Support
- Cursor on Target (CoT) capable
- Shortens kill chain—F2T2EA
  - (Find, Fix, Track, Target, Engage, Assess)
- JTAC target POSID/9-line/BDA
- Target update
- Imagery and data
- Mobile target attack

**NSA Certified**
- Link 16 CMI Compliant
- Embeds NSA Certified ES-1850/KOV-56 Crypto Engine
SPECIFICATIONS AND TECHNICAL FEATURES

PERFORMANCE

- **Frequency Range**: 969 to 1206 MHz Link 16
- **Transmission Modes**: Link 16 TDMA, All OP modes and enhanced throughput
- **Antenna Ports**
  - Link 16: 50 Ω
  - GPS: 50 Ω
- **Batteries**: 12 V Rechargeable Lithium-Ion; 6.8 Ah
- **Data Interfaces**: Ethernet/USB/Netwarrior
- **Dimensions (W x H x D)**: 2.6 x 8.4 x 1.7 in.; 6.6 x 21.3 x 4.3 cm
- **Volume**: 36 cu in. with battery; 23 cu in. without battery
- **Weight**: 2.19 lb with battery; 1.28 lb without battery
- **GPS**: Embedded SAASM

RANGE

- Clear line-of-sight transmission range in excess of 75 nm

TRANSMITTER

- **Power Output**: 8 W

WAVEFORMS

- **L-band**: Link 16 data and voice including enhanced throughput modes

ENVIRONMENTAL

- **Operating Temperature**: -31˚ to +60˚ C; -23.8° to +140° F
- **Storage Temperature**: -33˚ to +71˚ C; -27.4° to +159.8° F
- **Immersion**: 2 m; 20 m option

FEATURES

- Rugged, small, and lightweight
- Advanced power management
- Link 16 voice/data
- Link 16 frequency remapping
- Modular design for easy growth
- Interoperable with: JTIDS, MIDS-LVT, MIDS JTRS, STT, Link 16
- Compatible with government-fielded batteries and accessories
- Link 16 CMI compliant
- Suite A and Suite B algorithms, timeslot-by-timeslot switching

GROWTH CAPABILITIES

- Concurrent multi-net
- Link 16 precision navigation
- Enhanced anti-jam

CONTACT

6155 El Camino Real, Carlsbad, CA 92009-1699, USA

U.S. SALES
TEL 760 795 6334
EMAIL bats@viasat.com

INTERNATIONAL SALES
TEL +1 760 476 2675
EMAIL bats.international@viasat.com

TECHNICAL SUPPORT
TEL 866 496 1584
EMAIL tdl-techsupport@viasat.com
WEB www.viasat.com/link-16

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