

30 SECONDS FROM INITIAL CONTACT TO WEAPON DELIVERY



The ViaSat Battlefield Awareness and Targeting System-Dismounted (BATS-D) 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 and mobile warfighters at the tactical edge. The terminal can be used vest-worn, handheld, or mounted, and is ideal for bringing full Link 16 network access to Special Operations forces, Expeditionary forces, Joint Terminal Attack Controllers (JTACs), ground vehicles, maritime craft, UAVs, and coalition warfighters.

The ViaSat BATS-D radio bridges the critical gap between air and ground forces by providing real-time fused air/ground Situational Awareness (SA) to coordinate and maneuver forces instantaneously. This handheld radio arms dismounted JTACs 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 terminal 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 Position Location Information (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

VIASAT BATS-D AT-A-GLANCE

Mission Flexibility

- » Fully functional Link 16 terminal
- » Handheld/small form factor
- » Embedded 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 capable
- » 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); Air Defense Systems Integrator (ADSI®); Joint Range Extension (JRE); Gateway Manager
 - 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

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

RECEIVER

- » **Sensitivity** -100 dBm (1% MER)

TRANSMITTER

- » **Power Output** 8 mW and 8 W (Ground to Air transmission ranges in excess of 50 nm)

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
- » GPS
- » 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
- » Vehicle adapter compatible

GROWTH CAPABILITIES

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



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