

Embeddable L-band Module for Realistic Commercial Aviation Signal Processing and Testing



The Viasat Battlefield Awareness & Targeting System-Embedded (BATS-E 500T) is specifically designed for size, weight, and power-constrained systems for realistic signal processing and testing in the safety-of-life Aeronautical Radionavigation Service (ARNS) band. The embeddable module can be used in a wide range of commercial applications including Identification, Friend, or Foe (IFF) systems and test products, Distance Measuring Equipment (DME) systems, Tactical Air Navigation (TACAN) test products, and commercial signals generation and processing.

The Viasat BATS-E 500T combines a highly reprogrammable signal processing subsystem with an embeddable form factor that delivers easy and accurate signal processing and testing to your system before real-world deployment. This ensures development costs are kept to a minimum so SWaP-constrained systems are ready for the National Air Space on time.

By leveraging an existing core software architecture that is used in other L-band systems, our reprogrammable subsystem can easily scale to meet your unique system requirements. With Viasat's BATS-E 500T, you can create a flexible testing environment for your commercial aviation systems to ensure optimal performance.

VIASAT BATS-E 500T AT-A-GLANCE

- » Embeddable form factor
- » Fully reprogrammable
- » Low, size, weight, and power
- » Customizable interface with host computer
- » Ideal for SWaP-constrained systems
 - Commercial IFF systems
 - IFF test products
 - Commercial DME systems
 - DME/TACAN test products
 - Commercial signals generation and processing

Ordering Information

PN: 1201420 BATS-E LBM

Specifications

- » **Frequency Range** 960 to 1215 MHz
- » **Transmission Modes** Pulsed IFF, DME, TACAN, or Link 16
- » **Antenna Ports**
 - L-band (1) 50 Ω
- » **Data Interfaces** VDS/HDLC
- » **Dimensions (W x H x D)** 5.6 x 3.0 x 5.3 in.; 14.2 x 7.6 x 13.5 cm
- » **Volume** 89 cu in.
- » **Weight** 5.25 lb

Transmitter

- » **Power Output** 63 W and 8 W (transmission ranges in excess of 200 nmi)

Waveforms

- » **L-band** IFF, DME, TACAN, or Link 16

Environmental

- » **Operating Temperature** -40° to +72° C with host provided heat sink; -40° to +161.6° F
- » **Storage Temperature** -54° to +85° C; -65.2° to +185° F



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 MIDLSTV

FAX 760 795 1045

EMAIL mids@viasat.com

WEB www.viasat.com/mids