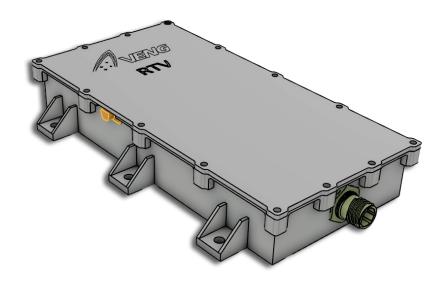


## **MAIN FEATURES**



The EFTS is a digital, FPGA-based, flight termination receiver that meets the requirements of the standard RCC 319, designed for space launch applications.

The EFTS provides a high dynamic range front-end, and a digital receiver that implements Reed-Solomon channel coding to enhance the link, as well as a 3-DES encryption to strenghten the mission security.

## **Output power**

TBD to 40 dBm

## Center frequency

425 MHz

#### Modulation

CPFSK

#### **Dynamic Range**

-107 to +13 dBm

#### Bit rate

7200 bps

#### Message rate

50 Hz

## Message error probability

1 x 10-4 @ Pin < - 107 dBm

## **Channel Coding**

Reed-Solomon (16, 8)

### **Encryption**

3-DES

#### **Standard**

Meets the requirements of RCC 319-19 (talored)



## **SPECIFICATIONS**

#### **DC** characteristics

Input voltage

22 - 36 VDC

### **RF** characteristics

Impedance

50 ohms

IF Bandwidth @ 3dB

180 kHz

Selectivity Bandwidth @ 60 dB

970 kHz

**Dynamic Range** 

-112 dBm to +13 dBm

Image rejection

 $> 60 \, dB$ 

**SSTO (Signal Strength)** 

0.5 V (@ -112 dBm) to 2.6 V (@ +13 dBm). Linear between -112

dBm and -55 dBm

## **Decoding characteristics**

**Demodulation** 

CPFSK

Message rate

50 Hz

Bit rate

7200 bps

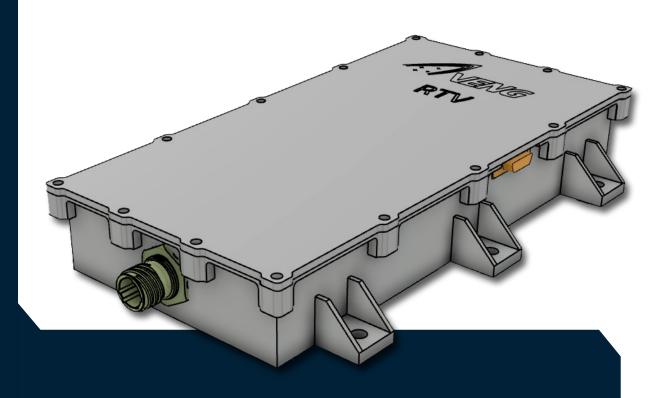
#### **Mechanical**

**Dimensions** 

TBD

Weight

TBD





# **Commercial Inquiries**

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