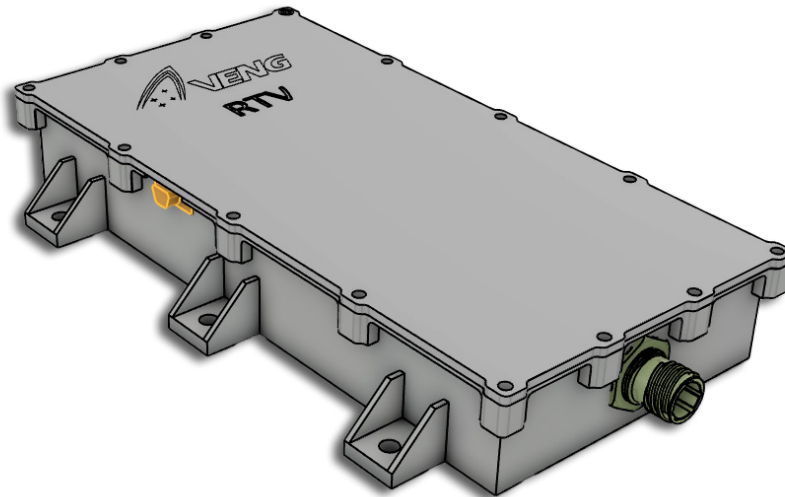




RTV

Enhanced Flight Termination Receiver (EFTS)

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 strengthen 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

1×10^{-4} @ $P_{in} < -107$ 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

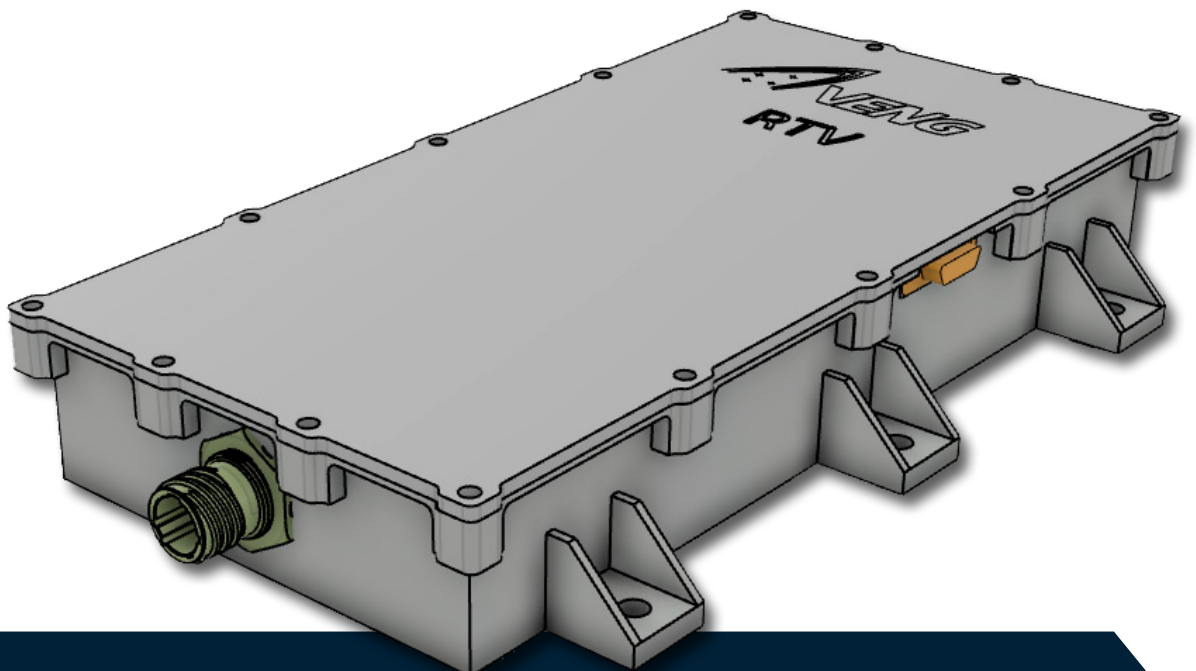
Mechanical

Dimensions

TBD

Weight

TBD





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