

Rover UAV DATA LINK

Summary: The Rover UAV contains an Eagle Tree Systems “Sea Gull” data link that transmits its GPS-indicated position and altitude to a receiver on the ground.

Data Link

Description:

Eagle Tree Systems ETS-SEA (900 MHz, 200mW System)

This is a frequency-hopping spread spectrum transmitter that operates in the license-free 900 MHz ISM band. It has been tested by the manufacturer and certified to comply with FCC standards.

From the manufacturer’s product information sheet:

FCC 900 MHz, 200mW Transmitter

Operational Voltage: 4.35V to 7.0V

Frequency Range: 902 – 928 MHz

Operating Range (Line of Sight): up to 1.2 miles w/included antenna, up to 3.6 miles with RX Yagi

FCC Approval: 15.247 Frequency Hopping Spread Spectrum

Maximum Output Power: approx 200 milliWatt

Dimensions: approx 2-3/4” x 1-1/4” x 1/4”

Weight: approx 0.5 oz (Transmitter only)

Temperature Range: 0 – 140 degrees F

TX Antenna: Thin, flexible stainless whip

Power: Power taken from Recorder/Receiver battery

Current Draw: Transmitter + Recorder, average < 70 milliamp

Filename: COA Draft# 2248_DATA LINK.doc

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C.O.A. Draft #2248

23 March 2011