Drone Remote ID for Anti-Collision Documentation

Versión 1.0.0

octubre 28, 2024

Table of Contents

Chapter 1

Changes to ArduPilot

There are a small number of focused changes to the ardupilot codebase to provide it with the ability to detect and avoid drones that transmit Remote ID signals.

Chapter 2

ESP-32 based OpenDroneID receiver

2.1 Installation

Software Repositories

3.1 OpenDroneID receiver for ESP32

- Receives bluetooth OpenDroneID messages and transmits them over UART encoded as MavLink

3.2 ArduPilot fork

- Enables reception of OpenDroneID messages with an ESP-32 running above firmware
- Integrate with AP_Avoidance and AC_Avoidance to demonstrate collision avoidance with opendroneid data