SRFS

INNOVATIONS IN TELECOM WORLD

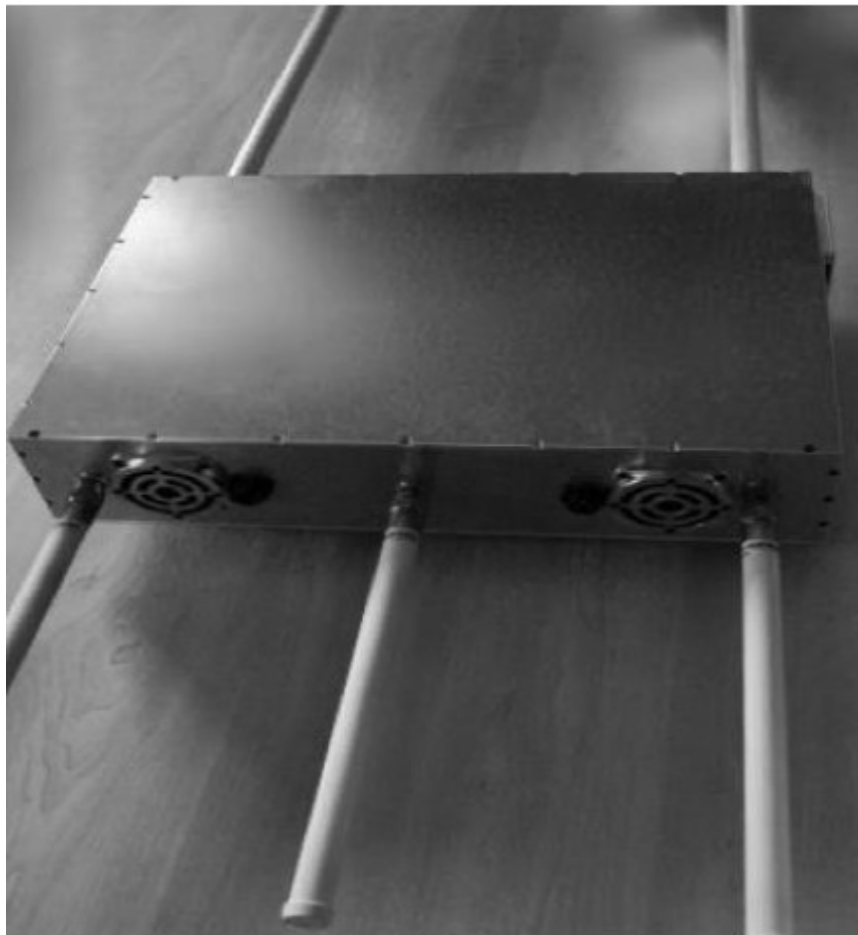# SRFS TELEINFRA

PRODUCT SPECIFICATION DOCUMENT

AUAV

ANTI DRONE ACTIVE MODULE

Purpose

AUAV is a default module for defense against drones, which is priced in a reasonable proportion to the commercial and consumer drones.

•The MODULE AUAV- Anti Drone Active Module works on the basis of the flooding of the WIFI frequency bands with IT- generated traffic. Not only WIFI signals are suppressed, but also RF signals with frequency hopping. Thus, the otherwise considered very secure encrypted control of DJI drones (not WIFI) are effectively suppressed. AUAV can be activated/deactivated with manual switching, via mobile app or fully automatically 24/7. The interference is reactive and can be individually channel-related in the 2.4GHz and 5GHz band. An extension to the bands of the WIFI6E is possible. Based on WIFI drones, the system deny of access can perform attacks.

Possible design of a stationary AUAV.
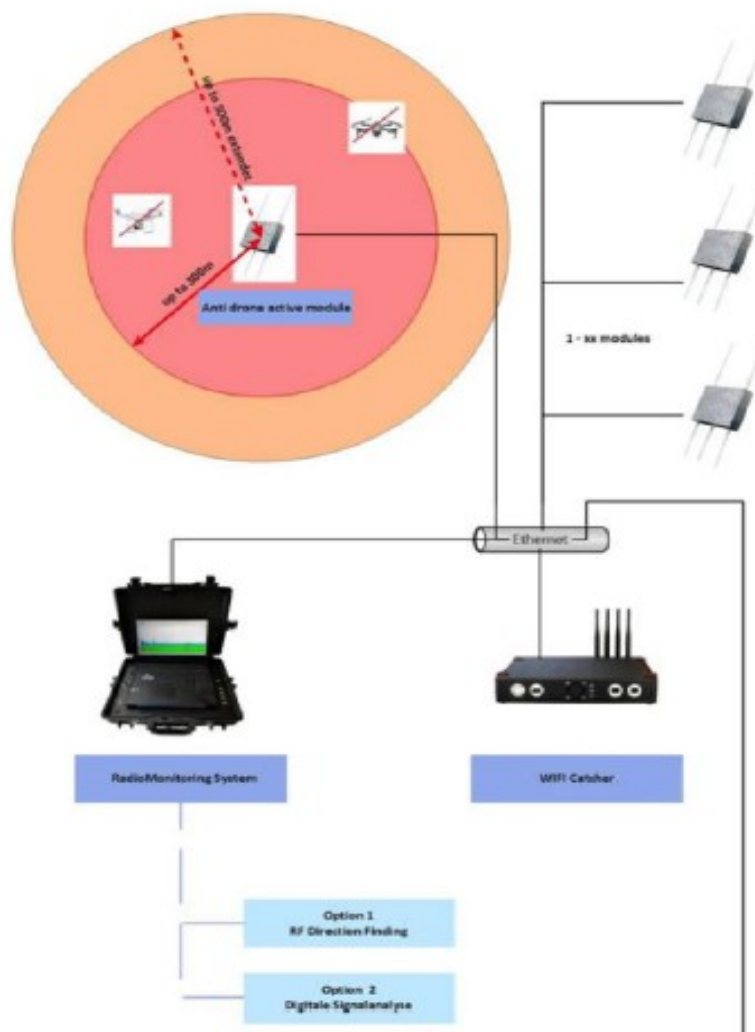A smaller modular design as well as the use of other antenna systems is possible.
Connections: 24V and Fast Ethernet

- Due to the interference method used, a relatively very low power is required. At full interference power, this is 24V-/ 78W. As a result, the waste heat is also low. A fully passive cooling concept is possible. The interference power of the system per channel does not exceed the performance of conventional WIFI systems.

- AUAV disrupts drones effectively up to 500m, when using omnipol antennas. When using sector and directional antennas, the range can be increased to 600m to 700m.

- When protecting larger objects, additional modules can be distributed over the entire area to be secured and connected directly to the M&C computer via Ethernet. Theoretically, a PC can control globally distributed AUAV systems.

System Setup for manual operation:

• 1x interference module AUAV 1x power supply

• Win 10 Software/ Optional Smartphone App

System Setup for automatic operation:

• 1x interference module AUAV 1x WIFI Guardian

• 1x Radio Inspector RT (with SDR receiver 25MHz – 6GHz)

• Central Win10 software

Accessories:

• RF Direction Finding -15/1 Sector Antenna with Zodiac Receiver

• -DF Software

• Digital Signal Analysis -Radio Inspector Detest

• GPS Spoofing

    - Spoofing Unit

    - Amplifier

    - Antenna System