

SkyRF - Mounting Guide

Required Material

- Torx Screwdriver set
- Head screwdriver PH2x100mm
- Head screwdriver PH1x100mm
- Loctite 243 or similar

Mounting Steps

Drone (Multiple brands can be used)

Unpack and mount the DJI M300/M350 drone: https://dl.djicdn.com/downloads/matrice_350_rtk/Matrice_350_RTK_User_Manual_en.pdf

Unpack and mount the IF1200A: <https://inspiredflight.freshdesk.com/support/solutions/articles/67000662735-if1200-setup-guide>

Unpack and mount the IF800: <https://docs.inspiredflight.com/inspired-documentation/products/aircraft/if800-tomcat>

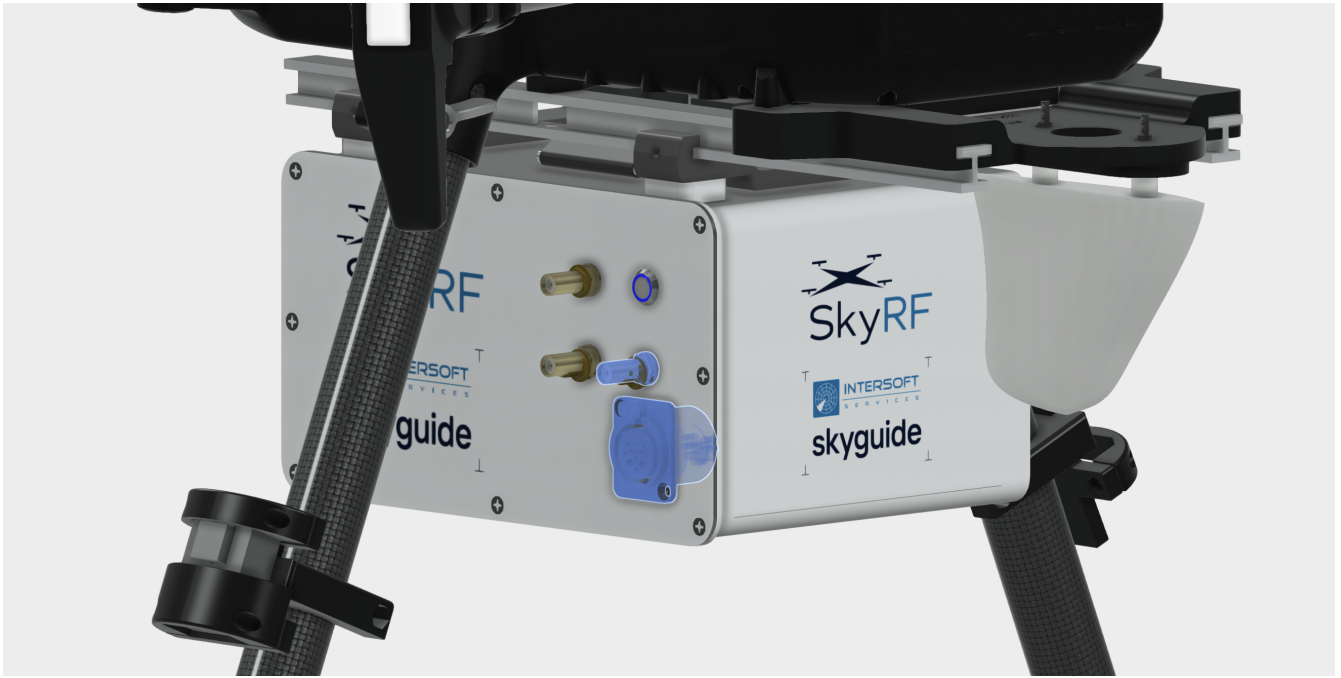
Mount SkyRF transceiver

If the drone does not have pre-mounted rails (DJI or IF800), start by attaching the rails. Attach them in a way that the longest part is facing the front. This part can be used to attach a L-band/DME antenna [OPTIONAL].

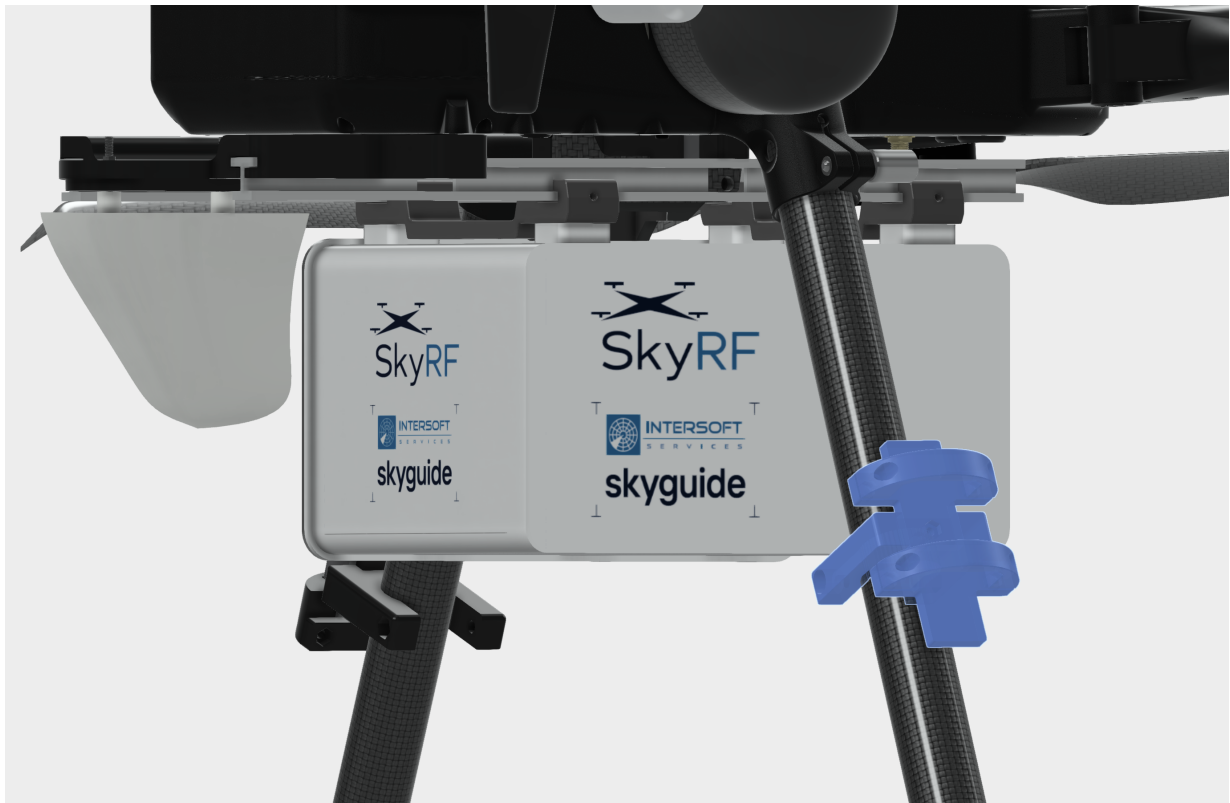
Fixate the transceiver to the drone (rails) as displayed on the figures below. The fixation is done with 4 screws in the mounting brackets, do not over tighten the screws (10Newton Metres is sufficient) but make sure it cannot shift.



Connect the power supply and drone data interface to the transceiver. This is done by inserting the Neutrik NC10FXX-14-B connector. Connect the WIFI antenna.



Fixate the cellular dongle. (OPTIONAL)



Mounting of the wooden blades (OPTIONAL)

Two types of blades are available, the CW (clockwise) blades and the CCW (counter-clockwise) blades. The part of the blade that is connected to the rotor is flat, so no mistakes can be made.

For longer fixation, apply some Loctite 243 or similar to the bolts.



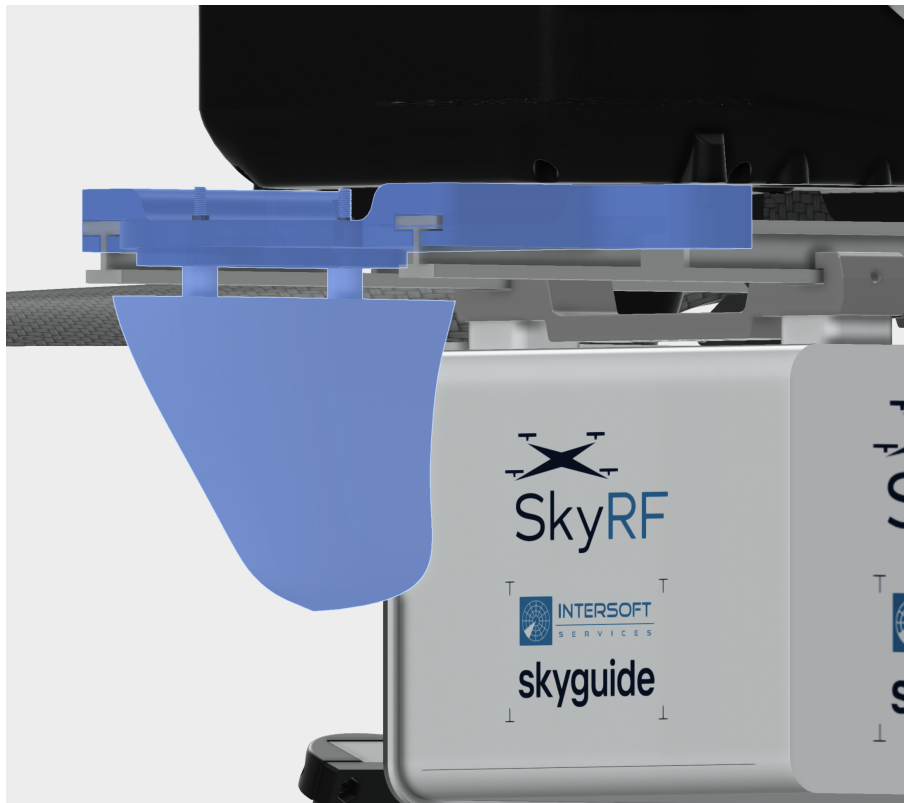
DME / L-band antenna mounting (OPTIONAL)

Assemble the DME antenna

Fixate the bolts with the 7mm ratcheted wrench (or similar)

Mount the DME antenna

Connect the RF cable



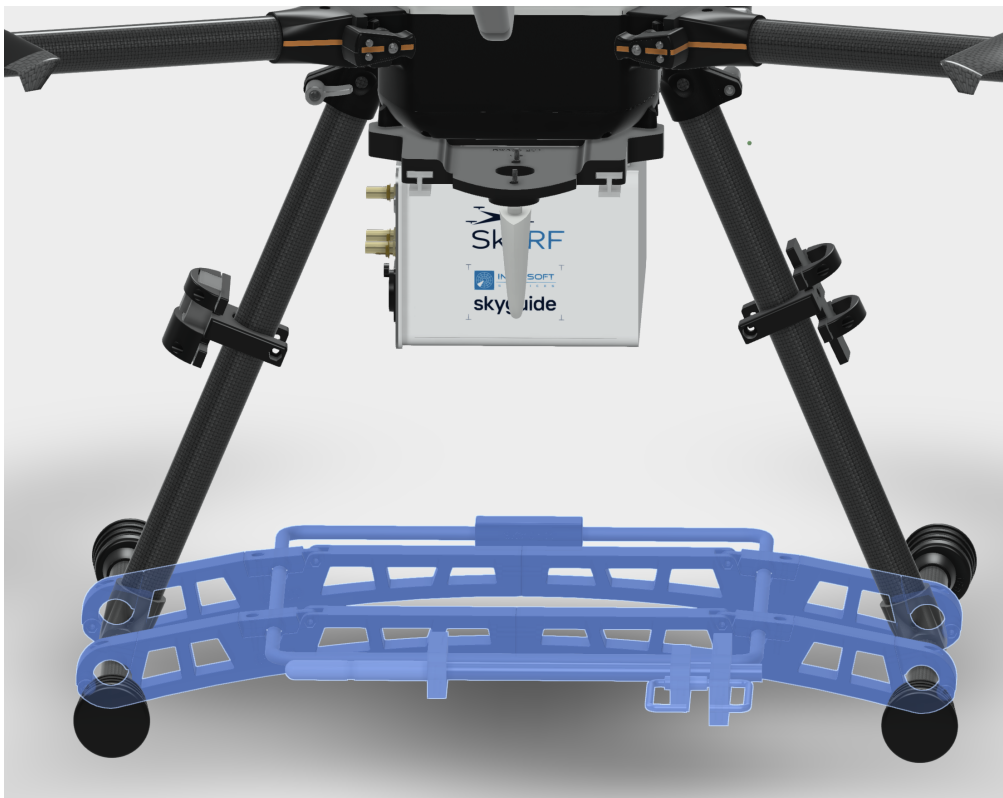
Install the ILS/VOR antenna (OPTIONAL)

If the antenna and is not yet in the antenna holders, this can be done with the next steps (only required once if the antenna and the antenna holders can be transported together)

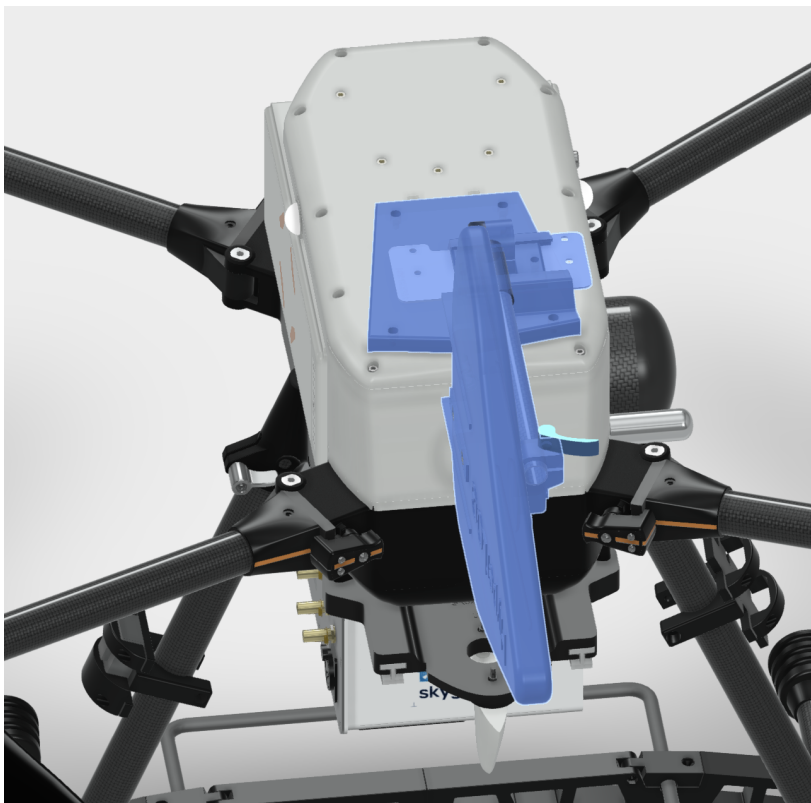
Required additional equipment: Taica 10mm Anti-Vibration Pad GT-3 Silicone +100°C -40°C 1000 x 10 x 2mm 2mm (RS Stock Number: 474-808)

- 4 bands of 4.5 cm (1.8 inch)

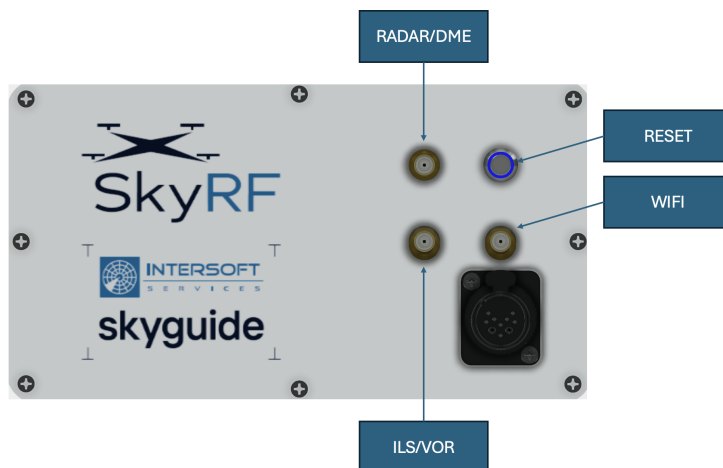
Connect the antenna to the SkyRF transceiver



Install the Multipurpose antenna (OPTIONAL)



Connect the SkyRF® Transceiver to the required Antenna according to the drawing below.



At this point, SkyRF is ready to be operated.

