



HOOK-ON-DEVICE

Transponder to track flying objects with the help of
FLARM and LTE¹

Intended use: The Hook-On-Device (HOD) for UAS and other aircraft (such as helicopters) to transmit their own position data. Thanks to its low weight, the HOD can be attached to any aircraft. It contains an LTE modem and a SIM card. The device transmits its current GNSS position via LTE to the UAS Traffic Management (UTM) system of DFS. The device is capable of receiving FLARM and ADS-B from surrounding air traffic

and sending this data additionally to its own position to the UTM system. The UAS operator receives the UAS own position and the position data of other relevant air traffic in the vicinity via the web based UTM tracker. At the same time, the HOD transmits its position via FLARM (flight alarm). In this way, the aircraft also becomes visible to other airspace users in the vicinity who use FLARM.

¹) The product will be delivered ready for use in Germany. On request, we can offer solutions for use in other countries.

Product features:

- LTE modem to track aircraft via LTE
- Internal antennas: Built-in LTE antenna can be activated optionally
- External antennas: LTE, GNSS, FLARM and ADS-B antennas
- Compatible with all FLARM systems in aircraft and UAS
- Broadcasts its own position via FLARM
- Sensors: Barometric sensor



Technical data

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| FLARM frequencies (transmitter and receiver) | 868 MHz |
| FLARM range | Highly dependent on antenna installation (also at other airspace users) |
| ADS-B | 1090 MHz receiver |
| ADS-B-range | Technically limited to about 25 km |
| Antenna orientation (reception/transmission) | GNSS oriented upwards (writing "Pulse" facing up) LTE oriented downwards FLARM oriented downwards ADS-B oriented downwards |
| External (power) connector | 6 pin JST (power and data) or micro USB (power and data), MMCX (antennas) |
| Power supply | 5 V (external power supply, such as a power bank or aircraft's power supply) |
| Energy consumption | < 400 mA |
| Dimensions | 58 mm x 38 mm x 9.5 mm |
| Weight | 35 g without antennas 84 g with antennas 89 g with USB and antennas 60 g power bank 149 g HOD with all antennas and power bank |
| Scope of delivery | <ul style="list-style-type: none">• Hook-on device• GNSS, LTE, FLARM and ADS-B antennas• Power bank• USB cable• Mounting bracket for HOD and power bank on drone• LTE connectivity• FLARM licence |