



OMNIDIRECTIONAL GROUND STATION (OGS)

Stationary system for ground-based air situational awareness¹

Purpose: The Omnidirectional Ground Station (OGS) is a stationary traffic receiving station. As a sensor for air traffic data, it receives ADS-B (Automatic Dependent Surveillance - Broadcast) and FLARM (Flight Alarm) signals from surrounding air traffic participants (e.g. gliders, helicopters, powered aircraft). These signals are fed via LTE into the Droniq UTM (UAS Traffic Management) system, where they are analyzed together with other data sources. In addition, the OGS sends its own position to the Droniq UTM and is also visible there.

the UTM in a fused form: in this way, the OGS completes the aerial situation display of the UAS pilot.

Due to its compact design and IP67 certification, the OGS can be permanently installed at various locations and operated 24/7.

The main field of application is the support of the UAS remote pilot when flying beyond visual range in combination with a HOD4track.

¹ The product is delivered ready for use in Germany. On request, we offer solutions for use in other countries.

Product features:

- ADS-B & FLARM Receiver
- LTE Connectivity
- Droniq UTM Integration
- GNSS Multi-Constellation



Technical data:

HARDWARE

Antennas and alignment

- GNSS: unobstructed view to the sky; do not cover top of OGS
- FLARM & ADS-B: vertical on mounting arm

Weight

- 2 kg

Dimensions

27.2 x 27.6 x 9.6 cm

Operating temperature

-30°C bis +40°C

Certification

IP67

CONNECTIVITY¹

Technology

LTE 4G Cat1

SENSORS

GNSS

- Systems: multi-constellation (GPS, GALILEO, GLONASS, EGNOS)
- Precision: at 2.5m CEP

FLARM Receiver

- Frequenz: 868 MHz
- Empfindlichkeit: -110 dBm
- Reichweite: Etwa 40 km (je nach Positionierung)
- Lizenz: Lebenslange FLARM Lizenz

ADS-B Receiver

- Frequenz: 1090 MHz
- Empfindlichkeit: -90 dBm
- Reichweite: Etwa 600 km (je nach Positionierung)

Antenna characteristics

- Omni-direktional

POWER SUPPLY

Source

- Power cable or USB (no parallel operation)

Power consumption:

- 1,5 W

USB

- Voltage: 5 V - 12 V
- Current: 2A

Power cable

- Coltage: 100 – 240 V AC

INSTALLATION

Max. Wind speed

- 125 mph

Wind load

- 148 lbf @ 125 mph

SCOPE OF DELIVERY

- OGS connectivity included
- FLARM and ADS-B antenna external
- GNSS and LTE antenna integrated
- 2x antenna cable
- Power cable (Schuko)
- USB cable
- OGS mounting kit
- LTE connectivity
- FLARM license

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