AGILICA

Positioning. Everywhere

High accuracy positioning for UAVs without GPS

Long Range

The AGL System™ is a local positioning system based on ultra wideband (UWB) technology, designed to be installed on-ship, to help drones find their relative position in harsh marine & offshore environments or to extend PNT services to an indoor environment. By enabling both navigation & tracking; take-off and landing is easier and safer, even in GNSS-shaded or denied environments or environments that lack reference points or visual cues. AGL™ provides the drone with highly accurate, realtime global positioning comparable to Galileo High Accuracy Service (HAS). If needed, heading information can be provided using a digital compass.

Key Features & Benefits:

- **POSITION ACCURACY DOWN TO 10CM (CFR HAS)**
- **DIRECT INTEGRATION WITH DRONE (NO BACKLINK/LATENCY)**
- **POSITION & HEADING DATA FOR AUTOMATIC TAKE-OFF & LANDING IN DYNAMIC SEA CONDITIONS**
- **OPERATIONAL IN POOR VISIBILITY & WITH NO RTK/GPS**
- **UNLIMITED DRONES IN AIRSPACE**
- **EXTEND PNT SERVICES TO A VOLUME OF 200 X 200 X 120 M**

Other Use Cases:

- GNSS contested drone ops
- Drone-in-a Box
- Charging systems
- Landing in motion
- Indoor drone navigation
- Real-time location & analytics
- Geotagging/geofencing
- Heatmaps of mobile assets

OUR DEVELOPER KIT IS AVAILABLE NOW
PLEASE CONTACT US TO DISCUSS YOUR NEEDS OR TO EXPLORE A PILOT PROJECT FOR YOUR USE CASE

Groot-Bijgaardenstraat 14,
1082 Sint-Agatha-Berchem | Brussels, Belgium

agilica.be

team@agilica.be

AGILICA

SYSTEM OVERVIEW & SPECIFICATIONS

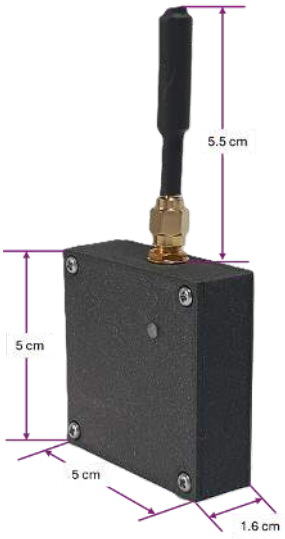
AGL ANCHOR

GROUND SIDE

6 or more AGL anchors
Battery / USB-C Powered
Remote monitoring & configuration via USB-C / Wifi
Swappable Antenna

RF-Interface	UWB (CH5) Omnidirectional antennas - external, swappable Connector: SMA or N-Type
Connectivity	USB-C & Wi-Fi
Power	USB-C: 5V 110mA@5V (typical)
Dimensions	150 x 150 x 55 mm (l x w x h)
Weight	404g (without antenna) 410 (with antenna)
Casing	Flame-resistant ABS or ASA, IP67 Flexible mounting options
Operational Temperature	-20 to 60 °C (ASA casing) -10 to 50 °C (ABS casing)

AGL DRONE TAG



AIRBORNE SIDE

1 AGL drone tag for positioning
Connection via serial/UART
(NMEA message & custom formats)
Optional expansion kit available for heading data

RF-Interface	UWB (CH5) Omnidirectional antennas - external, swappable Connector: SMA
Refresh rate	10 Hz (typical)
Interface	Serial/UART NMEA message or custom format
Power	100mA@5V (typical)
Dimensions	50 x 50 x 16 mm (l x w x h) (default casing)
Weight	29g (without antenna) 35g (with antenna)
Casing	3D Printed

Groot-Bijgaardenstraat 14,
1082 Sint-Agatha-Berchem | Brussels, Belgium
agilica.be
team@agilica.be