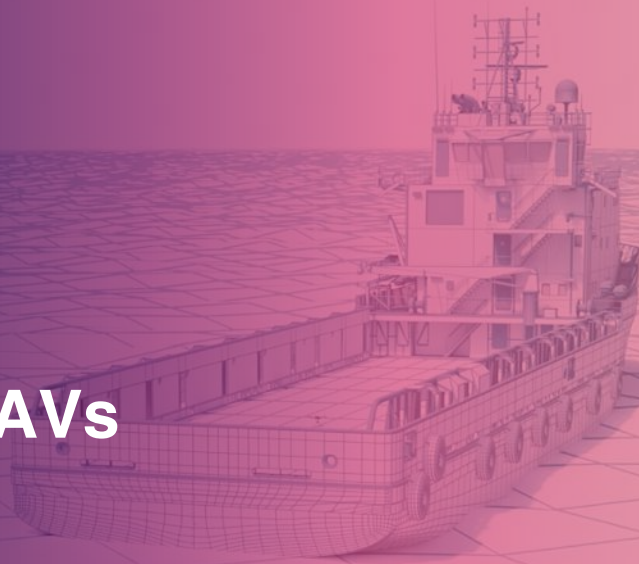




AGILICA

Positioning. Everywhere

High accuracy positioning for UAVs without GPS



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. 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 relative positioning as well as simultaneously tracking other critical assets on deck, improving both safety and efficiency for the whole operation. If needed, heading information can be provided using a digital compass.

Key Features & Benefits:



POSITION ACCURACY DOWN TO 10CM



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



BOTH DRONE NAVIGATION & ASSET/PERSONNEL
TRACKING MOVEMENT PATTERNS ON DECK IN REAL-TIME

Other Use Cases:

- 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



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SYSTEM OVERVIEW & SPECIFICATIONS

AGL ANCHOR



GROUND SIDE

- 6 or more AGL anchors
- Battery or power over ethernet
- Remote monitoring & configuration via web app

RF-Interface	UWB (CH5) Omnidirectional antennas
Connectivity	Fast Ethernet, Wi-Fi, BLE
Power	USB-C: 5V PoE: 802.3af 5W typical
Dimensions	210 X 150 X 55 mm (l x w x h)
Weight	600g
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 antenna
Refresh rate	10 Hz (typical)
Interface	Serial/UART, Micro USB NMEA message or custom format
Power	135mA@5V (typical)
Dimensions	32 X 28 X 10 mm (without casing)
Weight	6,8 g (without casing)
Casing	Different casings available (e.g. GPS mast mount)