

Positional intelligence in GPS-denied environments

Modern operations run on GPS - and adversaries know it. Jamming and spoofing are now routine, and every aircraft that treats satellite positioning as its single source of truth inherits risk to its mission.

Enter AQNav

AQNav is a MagNav software solution that provides assured navigation in the absence of GPS, completely independent of any infrastructure. It operates as a complimentary guiding source inside your existing navigation stack, using your sensors and compute; delivering assured navigation without forcing a proprietary stack or costly hardware overhaul*.

*Software-plus-hardware offerings are available when broader support is needed.

DESIGNING A NEW PLATFORM? BUILD AQNAV IN FROM THE START.

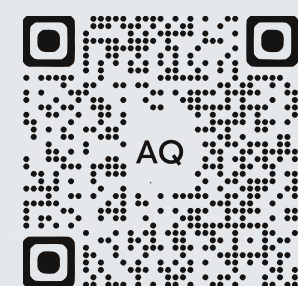
Make the right decisions around compute, IMUs, sensors and placement before your design is frozen - ensuring MagNav is cost-effective, performance-optimized, and built natively into your platform architecture.

ALREADY FLYING? ADD AQNAV WITHOUT STARTING OVER.

AQNav works with the architecture and hardware already in place, adding on what's needed to bring AQNav onboard without unnecessary re-architecture.

Start today

Integrate AQNav into
your navigation stack.



Sensor Agnostic

AQNav runs on the sensors you choose, from the vendors you choose.

SandboxAQ characterizes and evaluates sensors for AQNav across performance, environmental, and integration criteria, giving you the flexibility to work across a growing range of sensor technologies and vendors.

Magnetometers:

QuSpin

Twinleaf

FieldLine

Geometrics

IMU/INS: (navigational-, tactical-, and MEMS-grades)

VectorNav

Emcore

Honeywell

Don't see your sensor? AQNav isn't limited to this list; our team will characterize and evaluate your preferred sensors against your use case.

Open Architecture

AQNav integrates into the architecture you have, through the interfaces you already use.

AQNav is designed to be aligned with MOSA standards, significantly reducing integration complexity.

Physical interfaces

MIL-STD-1553

ARINC-429

USB

Ethernet

RS-232/422/485

Software interfaces

ASPN-I

MavLink

We can support additional third-party APIs

Positioning output destinations

Mission Computer

FMS

EFB

Minimal Compute

AQNav is engineered for a small compute footprint, providing MagNav capabilities without placing unnecessary demands on your existing mission systems.