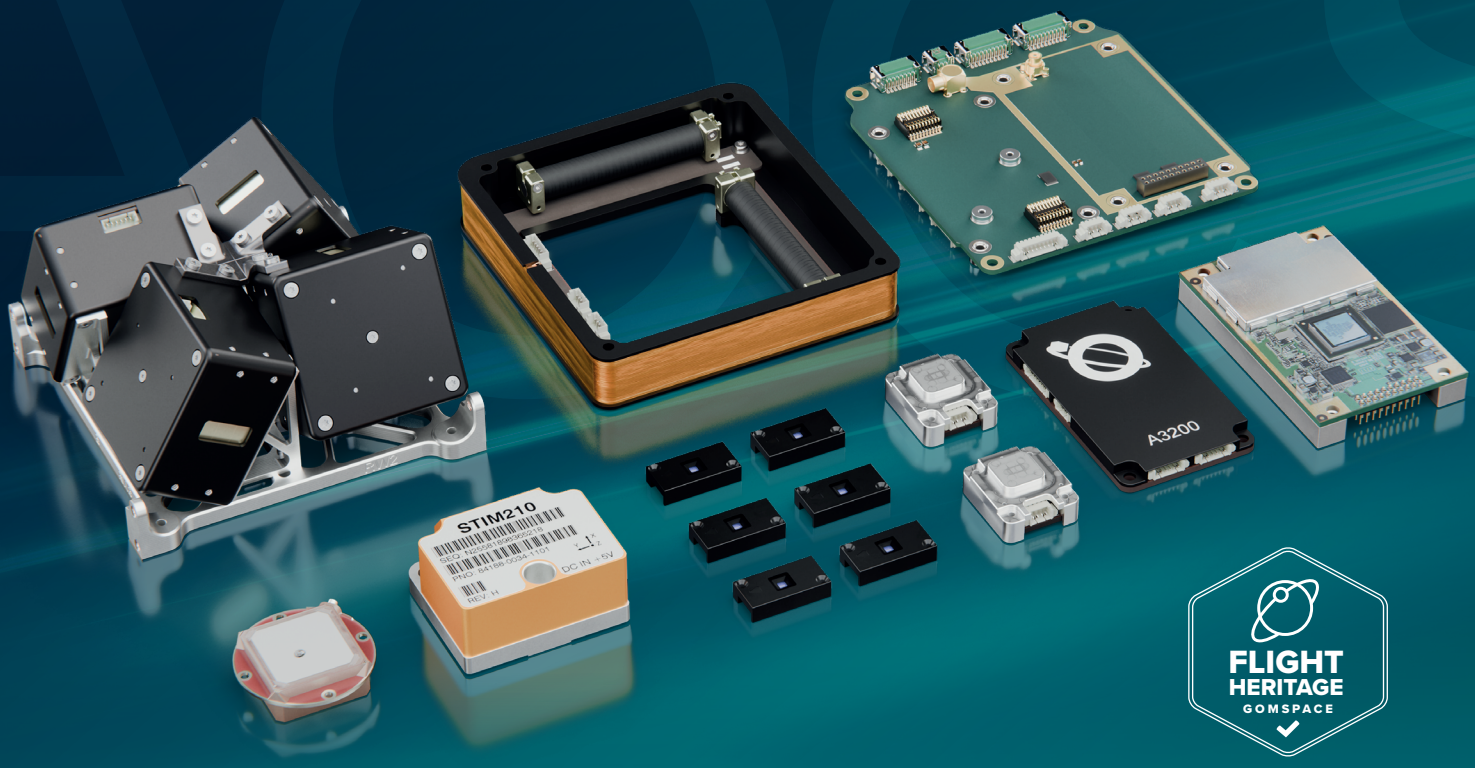
GOMSPACE

A FAST TRACK · READY TO INTEGRATE · HIGH-RELIABILITY

AOCS Kit

Less integration. More performance. Faster missions.



FLIGHT HERITAGE GOMSPACE

Replace months of subsystem sourcing and verification with a ready-to-integrate AOCS solution that helps you stay on schedule and focus engineering resources where they create the most value.

This AOCS Kit is fully built from our existing product portfolio and validated as a complete subsystem. Instead of sourcing, matching, and verifying individual components, this pre-defined, interoperable package is ready for rapid integration and technical risks reduction.

gomspace.com

AOCS Kit

Based on heritage components used in every GomSpace satellite, the AOCS Kit provides a dependable foundation for missions requiring precise attitude determination and control, accurate pointing, and stable spacecraft orientation.

What is included in the AOCS kit

- AOCS Flight Computer
- Sensors Suite
- Actuators Suite
- AOCS Flight Software, to be configured for rapid deployment

Designed for GomSpace Nanosatellite Platforms

- Optimized for 6U, 8U, 12U, and 16U CubeSat class missions
- Suitable for LEO applications requiring stable pointing, agility, and robust operation
- Provides consistent system level performance built on internal mission heritage

Integration third-party sensors and actuators products

The AOCS kit provides support for the following third-party products:

- Vectronic Reaction Wheels
- Sodern Auriga Star Tracker
- NewSpace Magnetorquers
- TrustMe Propulsion

KEY FEATURES:	
Faster time to orbit:	· Subsystem compatibility is solved upfront
Lower integration risk:	· All components are validated as a complete AOCS chain
High reliability:	· Based on GomSpace hardware already flying on operational missions
Predictable performance:	· Fixed and well characterized AOCS configuration
Efficient procurement:	· One kit, one vendor, one tested solution
Included products in the Kit:	· NanoMind A3200, On-board Computer · NanoSense FSS, Fine Sun Sensor (6 pcs.) · NanoSense M315, Magnetometer (2 pcs.) · Safran STIM210, Gyro · NovAtel OEM719, GNSS Receiver · Tallysman TW1322, GNSS Antenna · NanoTorque GST600, 3-axis Magnetorquer · NanoTorque GSW600, Reaction Wheel, 4 wheels in a pyramid

TECHNICAL INSIGHTS:	
Attitude knowledge:	· AKE: < 1° without Star Tracker (3σ) · AKE_{ST}: < 0.06° with Star Tracker (3σ)
Attitude pointing:	· APE: <2 ° without Star Tracker (3σ) · APE_{ST}: < 0.2° with Star Tracker (3σ)
Temperature range:	· -40° to +85°C
Maximum slew rate:	· 3°/s
Operation modes:	· B-dot, LVLH, LPRF, SPRF, ECI, Sun Pointing Safe Mode
Total mass:	· AOCS System: 2200 grams
Nominal power consumption:	· 7.4 W
Volume footprint:	· < 1.25U (U: 10x10x10)