



SKYNAUTE™

THE MOST COST-EFFECTIVE & COMPACT
INERTIAL NAVIGATION SYSTEM

Perfectly suited to civil and military transport aircraft, helicopters and UAVs, SKYNAUTE™ sets the new standard for cost-effective, performance and Size, Weight & Power (SWaP) oriented solution.



INERTIAL PERFORMANCES
1 NM/H
RNP 0.1 COMPLIANT



REDUCED SIZE & WEIGHT
-35% vs MARKET REFERENCE



HRG UNLIMITED LIFE DURATION



ITAR FREE



Safran Electronics & Defense is with you every step of the way, building in the intelligence that gives you a critical advantage in observation, decision-making and guidance.

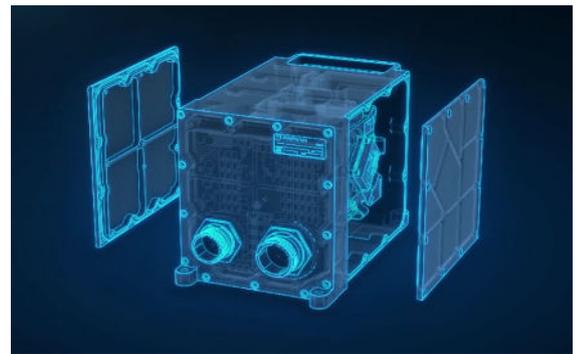
Technical specifications

SkyNaute™ hybrid inertial/GNSS navigation system meets all the safety and reliability requirements for airplanes, helicopters and drones. Thanks to the HRG Crystal™ Hemispherical Resonator Gyroscopes, SkyNaute™ is the most competitive aeronautical navigation system on the market.

Relying on mature and proven technologies, SkyNaute™ combines high performance and integrity in all circumstances:

- ✓ High performance Inertial & Piloting data
- ✓ Protection levels for RNP/RNP-AR operations
- ✓ Fly-by-Wire, SVS (Synthetic Vision System) & HUD (Head-Up Display) architecture ready solution

Designed to reach the highest level of safety, SkyNaute™ meets the latest certification requirements and offers a new generation of inertial and GNSS hybrid navigation system for the most demanding applications, even in GPS-denied environment.



CHARACTERISTICS	SKYNAUTE™
SWAP	<ul style="list-style-type: none"> • 3 L / 3 kg / 20 W • (183 ln3 / 6.6 lbs / 20 W)
INTERFACES	<ul style="list-style-type: none"> • ARINC 429 • RS422 • Ethernet • Discrete I/O
OPERATING TEMPERATURES	<ul style="list-style-type: none"> • -40°C to +70°C
INERTIAL FUNCTIONS (ARINC 738)	<ul style="list-style-type: none"> • Piloting data • Attitude & Heading Reference System • Gyrocompass Inertial Reference System • GNSS Hybridization
RNP LEVEL (DO-229D)	0.1100% worldwide even in coasting >10 min
COASTING PERFORMANCES (95% accuracy)	<ul style="list-style-type: none"> • RNP 0.1 > 10 min • RNP 0.3 > 20 min • RNP 1 > 1 hour
INERTIAL PERFORMANCES	<ul style="list-style-type: none"> • Position (CEP50) < 1 Nm/h; < 5 m (HYB) • Velocity (RMS) < 4 kts; < 0.15 kts (HYB) • Heading (RMS) < 0.2°; < 0.1° (HYB) • Roll, pitch (RMS) < 0.05°
ALIGNEMENTS MODES	<ul style="list-style-type: none"> • On ground, fast alignment • In flight, on ship
CERTIFICATIONS	<ul style="list-style-type: none"> • ETSO/TSO: C201 • Software: DO-178C DAL A • Hardware: DO-254 DAL A
LEVEL OF VIBRATION	<ul style="list-style-type: none"> • DO 160G section 8
HYBRIDIZATION	<ul style="list-style-type: none"> • Internal or external multi-constellation • civil GNSS (ARINC 743) or military GNSS
RELIABILITY	<ul style="list-style-type: none"> • 55,000 hours

REDUCE COSTS OF INTEGRATION & OWNERSHIP, ENHANCE INTEGRITY & ACCURACY, IMPROVE SWAP WITH SKYNAUTE



OPTIMIZED SWAP
-35%



UNMATCHED LIFE-CYCLE COSTS



GNSS-DENIED environment



EASY TO INSTALL flexibility & no constraint



HRG MTBF >1 million hours



MODULAR & ADAPTABLE to fit your needs

safran-navigation-timing.com

