



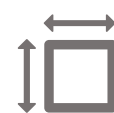
# SKYNAUTE™

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

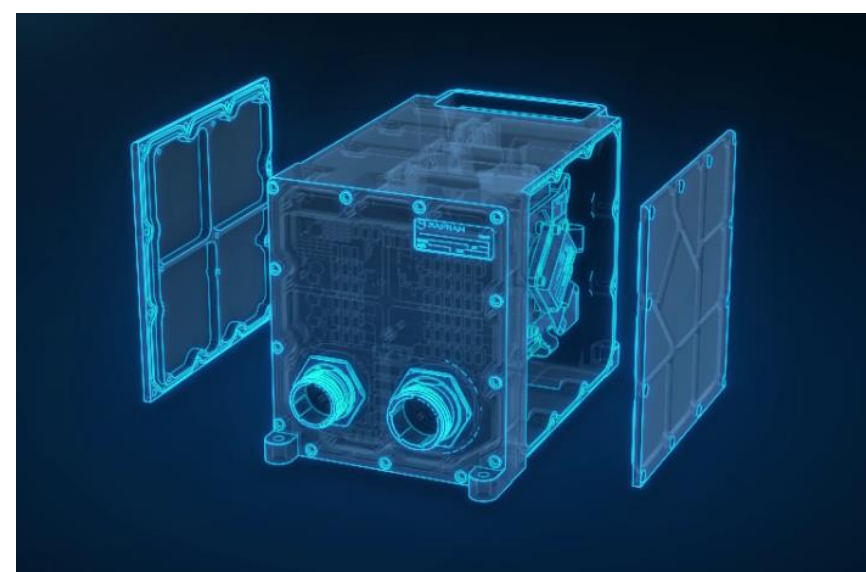
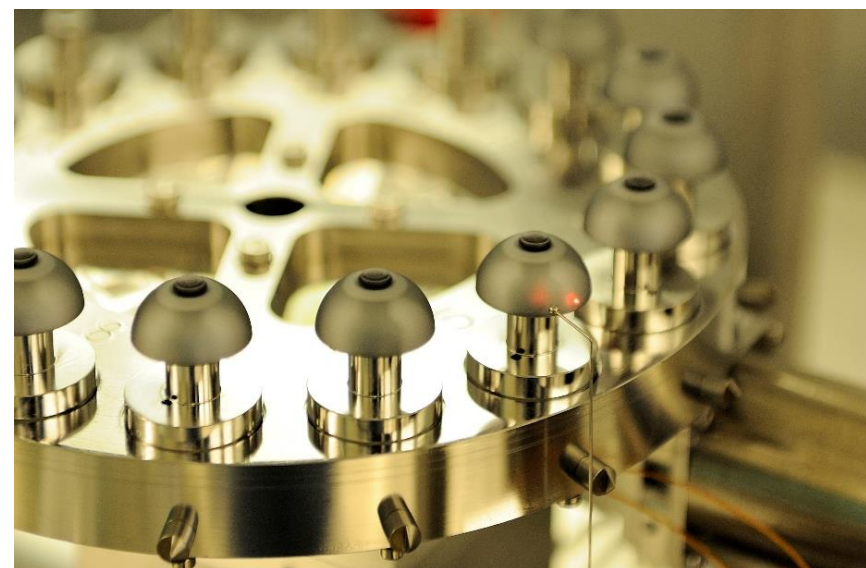
**SkyNaute™ hybrid inertial/GNSS navigation system meets all the safety and reliability requirements for airplanes, helicopters and drones. Thanks to the HRG Crystal™ Hemispherical Resonator Gyroscopes, SkyNaute™ is the most competitive aeronautical navigation system on the market.**

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

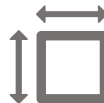
- ✓ High performance Inertial & Piloting data
- ✓ Protection levels for RNP/RNP-AR operations
- ✓ Fly-by-Wire, SVS (Synthetic Vision System) & HUD (Head-Up Display) architecture ready solution

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	3 L / 3 kg / 20 W (183 In³ / 6.6 lbs / 20 W)
INTERFACES	<ul style="list-style-type: none"> <li>• ARINC 429</li> <li>• RS422</li> <li>• Ethernet</li> <li>• Discrete I/O</li> </ul>
OPERATING TEMPERATURE	-40°C to +70°C
INERTIAL FUNCTIONS (ARINC 738)	<ul style="list-style-type: none"> <li>• Piloting data</li> <li>• Attitude &amp; Heading Reference System</li> <li>• Gyrocompass Inertial Reference System</li> <li>• GNSS Hybridization</li> </ul>
RNP LEVEL (DO-229D)	0.1 100% worldwide even in coasting >10 min
COASTING PERFORMANCES (95% ACCURACY)	<ul style="list-style-type: none"> <li>• RNP 0.1 &gt; 10 min</li> <li>• RNP 0.3 &gt; 20 min</li> <li>• RNP 1 &gt; 1 hour</li> </ul>
INERTIAL PERFORMANCES	<ul style="list-style-type: none"> <li>• Position (CEP50) &lt; 1 Nm/h ; &lt; 5 m (HYB)</li> <li>• Velocity (RMS) &lt; 4 kts ; &lt; 0.15 kts (HYB)</li> <li>• Heading (RMS) &lt; 0.2° ; &lt; 0.1° (HYB)</li> <li>• Roll, pitch (RMS) &lt; 0.05°</li> </ul>
ALIGNMENT MODES	<ul style="list-style-type: none"> <li>• On ground, fast alignment</li> <li>• In flight, on ship</li> </ul>
CERTIFICATIONS	<ul style="list-style-type: none"> <li>• ETSO/TSO: C201</li> <li>• Software: DO-178C DAL A</li> <li>• Hardware: DO-254 DAL A</li> </ul>
LEVEL OF VIBRATION	DO 160G section 8
HYBRIDIZATION	Internal or external multi-constellation civil GNSS (ARINC 743) or military GNSS
RELIABILITY	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

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