SKYNAUTE

THE MOST COST-EFFECTIVE & COMPACT INERTIAL NAVIGATION SYSTEM

- Integrity and accuracy even in GNSS-denied environment
- 3 liters / 3 kg / 20 watts
- 100% in-house & proven technologies

SAFRAN
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.

Based on Safran HRG (hemispherical resonator gyroscopes) and accelerometers proven technologies (used in land and space navigation solutions), SkyNaute brings:
- High performance Inertial & Piloting data
- Protection levels for RNP/RNP-AR operations
  - 100% RNP 0.1, even in coasting >10 min
- 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.

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<th>Characteristics</th>
<th>SkyNaute</th>
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<tr>
<td>SWaP</td>
<td>3 L / 3 kg / 20 W (183 Inch³/6.6 lbs / 20 W)</td>
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| Interfaces               | • ARINC 429  
                           | • ARINC 664 (option)  
                           | • RS422  
                           | • MIL-STD 1553 (option)  
                           | • Ethernet I/O  
                           | • Analog output (option)  
                           | • Discretes I/O |
| Temperature              | -45°C to +70°C |
| Inertial functions (ARINC 738) | • Piloting data  
                           | • Attitude & Heading Reference System  
                           | • Gyrocompass Inertial Reference System  
                           | • GNSS Hybridization |
| RNP level (DO-229D)      | 0.1 100% worldwide even in coasting >10 min |
| Coasting accuracy (RMS)  | • 10 min <70 m  
                           | • 30 min <350 m  
                           | • 60 min <900 m |
| Inertial performances (RMS) | • Position < 1 Nm/h; < 5 m (HYB)  
                               | • Velocity < 4 kts; <0.15 kts (HYB)  
                               | • Heading < 0.2°; < 0.1° (HYB)  
                               | • Roll, pitch < 0.05° |
| Alignment modes          | • On ground, fast alignment  
                           | • In flight, on ship |
| Certifications           | • ETSO/TSO: C201  
                           | • Software: DO-178C DAL A  
                           | • Hardware: DO-254 DAL A |
| 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

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