

SKYNAUTE™

Inertial Reference System
DAL A Certified



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.

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

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.

Safran Federal Systems is the trusted Resilient PNT mission partner to U.S. government and defense organizations, from the lab to the field.



HRG MTBF
>1 million hours



UNMATCHED
LIFE-CYCLE COSTS



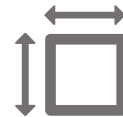
DAL A
CERTIFIED



UNPRECEDENTED
Navigation Performance

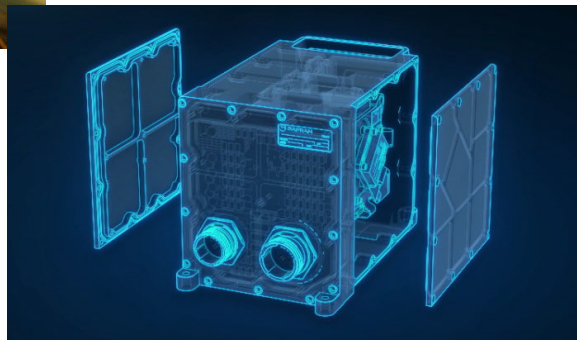


MODULAR &
ADAPTABLE
to fit your needs



OPTIMIZED SWAP
3 L / 6.6 lbs / 20 W

Characteristics	SkyNaute™
SWaP	3 L / 6.6 lbs / 20 W
Interfaces	<ul style="list-style-type: none"> • ARINC 429 • RS422 • Ethernet • Discrete I/O
Operating Temperature	-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)	0.1 100% worldwide when 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°
Alignment Modes	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	DO 160G section 8
Hybridization	External multi-constellation civil GNSS (ARINC 743) or military GNSS
System MTBF	55,000 hours



Reduce costs of integration & ownership
Enhance integrity & accuracy
Improve SWaP with SkyNaute™

**POWERED
BY TRUST**