

Supporting the most challenging military navigation requirements while adding civil interoperability capabilities

Honeywell

# EMBEDDED GPS/INS (EGI) WITH ANTI-JAM 

## Designated to provide maximum flexibility, Honeywell's EGI meets the most challenging military requirements along with civil interoperability capabilities.



H-764


FALCN


2013 Collier Trophy Industry Team Recipient X-47B Industry Team

| PRODUCT | SIZE OPTIONS | WEIGHT | VOLUME |
| :--- | :--- | :--- | :--- |
| H-764 | $7 " \times 7 " \times 9.8^{\prime \prime}$ | $<20 \mathrm{lbs}$ | $480 \mathrm{in}^{3}$ |
| FALCN | $6 " \times 6^{\prime \prime} \times 9^{\prime \prime}$ | 12.5 lbs | $324 \mathrm{in}^{3}$ |
| H-764 Legacy | $7 " \times 7 " \times 12.75^{\prime \prime}$ | 22 lbs | $624 \mathrm{in}^{3}$ |


|  | FREE INERTIAL | BLENDED INS / GPS SPECS | BLENDED INS / GPS MEASURED |
| :--- | :--- | :--- | :--- |
| Position | $0.2-1.0 \mathrm{nmi} / \mathrm{hr}$ CEP | 5 m SEP | $<4 \mathrm{~m},<1 \mathrm{~m}$ Horiz. $\mathrm{w} / \mathrm{dGPS}$ |
| Velocity | $0.5-0.8 \mathrm{~m} / \mathrm{s}(1.5-2.5 \mathrm{ft} / \mathrm{sec})$ | $0.01 \mathrm{~m} / \mathrm{s}(0.03 \mathrm{ft} / \mathrm{sec})$ | $<0.003-0.01 \mathrm{~m} / \mathrm{s}(0.01-0.03 \mathrm{ft} / \mathrm{sec})$ |
| Heading | 0.1 deg | 0.015 deg | $<0.015 \mathrm{deg}$ |
| Pitch / Roll | 0.05 deg | 0.01 deg | $<0.01 \mathrm{deg}$ |

- Existing footprint can include Radar Altimeter, Multi Mode Receiver (with VOR/ILS/Marker Beacon) and synchro capability
- Available with SAASM, SPS and MCODE
- Available with SBAS
- Available with dGPS integration (1m horizontal and 1.5 m vertical accuracy)
- Integrity enhancements:
- FDE/RAIM (GPS Only)
- HIGH (Blended)
- Interfaces:
- Dual 1553, ARINC 429, and RS-422
- Dual/Quad Ethernet 10/100/1000
- Synchro/Discrete (ARINC 704)
- Have Quick/1PPS
- Advanced GPS anti-jam system:
- Pre-integrated with leading beam forming anti-jam systems
- BAE DIGAR
- Chelton DACU
- IAI ADA
- Lockheed Martin GSTAR
- Can be purchased separately or as a package
- Outputs Blended INS/GPS, free inertial and GPS only
- Supports CNS/ATM Mandates
- ADS-B Blended Position Source with MSO-C145b certification, low latency design and transponder direct connect
- RNP/RNAV
- Autonomous LPV
- SBAS
- Certifiability:
- DO-178C
- DO-254 Level A
- MSO-C145b


## SUPPORTS GPS-CHALLENGED ENVIRONMENTS

- Atomic Clock
- Third Party Ap SW Host Capability
- Blended Navigation Assurance
- Alt Nav Integration
- Supports open architectures with flexible interfaces and integration with FACE
- Power: 35 to 60 watts
- MTBF >10,000 hours calculated, >25,000 hours demonstrated in certain applications
- State of the art GG1320 Ring Laser Gyro, 450,000 hours MTBF demonstrated with over 4 Billion accumulated flight hours
- Alignment Modes:
- Gyrocompass
- In flight alignment
- Ship alignment (SINS/AR-57 and in motion)
- Stored heading / acquisition mode
- Direct Y and Direct M


## For more information

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Please visit: aerospace.honeywell.com

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