

Air Data Inertial Reference System (ADIRS)



Providing increased reliability and performance to Airbus operators

Honeywell

ADIRS for Airbus Aircraft

Reduced Cost of Ownership

Selected by Airbus for high performance and reliability

The Honeywell next generation Air Data Inertial Reference System (ADIRS) with digital gyros provides the industry's highest reliability and performance in a 4MCU package. It is interchangeable with earlier 4MCU ADIRS and 10MCU ADIRS (with a tray adapter). Additional features increase system reliability while lowering weight to reduce operating and maintenance costs for operators.

- Automatic re-alignment eliminates the requirement to manually select down-mode align between flights or while waiting for dispatch
- Automatic gyro/accelerometer calibration
- Simplified sensor replacement allows repair of individual sensors without recalibration
- High latitude magnetic map, 82.5 degrees
- High system reliability - 40,000 MTBF
- Enhanced BITE provides performance monitoring and predictive maintenance messages

- 60% reduction in the number of circuit cards and interconnections
- AFDX interfaces for A380 aircraft systems while maintaining full ARINC interfaces for backward compatibility of A320 and A340 aircraft families
- Simple ordering with a single-part number for the entire Airbus family
- Simple on-aircraft software updates

HIGH Integrity

To provide 100% availability of RNP 0.1 navigation performance and immunity to GPS outages, an optional

Honeywell Inertial GPS Hybrid (HIGH) upgrade is available. HIGH combines raw measurement from each satellite in view from the MMR with a Kalman filter to provide a highly calibrated solution ensuring operators of their exact position. This capability is available for retrofit and forward-fit applications to maximize airline and route efficiencies.



Characteristics

Part Number	HG2030BE
Size	4 MCU
Weight (typical)	15.5 lbs (7 Kg)
Power Input	115 VAC or 28 VDC
Power Dissipation (Typical)	39 WATTS
Cooling	Passive
Interfaces	AFDX and ARINC 429
Environmental	DO-160D +
Software	DO-178B Level A
Gyros	Digital Ring Laser Gyro Fleet wide reliability experience >400,000 MTBF
Accelerometers	Quartz Fleet wide reliability experience >5,000,000 MTBF
Reliability	40,000 MTBF / 23,500 MTBUR
Processor	50X increase in processor MIPS
Outputs	Air Data, Inertial, and Hybrid GPS

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