

# Autonomous Aircraft Air Data Inertial Reference Unit Market Current Impact to Make Big Changes

*Autonomous Aircraft Air Data Inertial Reference Unit Market by Technology Global Opportunity Analysis and Industry Forecast, 2023-2032*

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/EINPresswire.com/ -- The global [autonomous aircraft air data inertial reference unit market](#) is experiencing a significant growth due to increasing procurement of autonomous UAVs globally. Autonomous aircraft is a fully automated manned or unmanned aircraft that require minimum or no human intervention in its operations. Air data inertial reference unit is a key component of the integrated air data inertial reference system that provides air data such as airspeed, Mach number, attitude data, and angle of attack, along with inertial reference information such as position & altitude, to flight instrument system. Autonomous aircrafts can be identified with their ability to perform complex maneuvers for extended period of time at remote distances.



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Autonomous flight system test runs will be delayed due to operational issues caused by travel restrictions imposed by governments around the world as precautionary measures against COVID-19.

Government imposed lockdown to slow the spread of COVID-19 have impacted the research & development of autonomous flight system as well as on-going projects of system installation or

upgradation.

Autonomous system manufacturers rely heavily on various suppliers of components and raw materials to test & develop autonomous flight system. However, government-imposed restrictions on transport services to control the COVID-19 outbreak, have disrupted the supply chain.

The aviation industry is suffering financial losses in maintenance of airlines & airports without any growth in revenue, due fall in air passenger traffic after travel bans imposed by governments globally to control the COVID-19 outbreak.

Autonomous aircraft market: Market size, growth, trends, and forecast

Surge in autonomy to reduce human errors, increase in demand for cost-effective aircraft operation, and rise in adoption of artificial intelligence in autonomous systems are the factors that drive the global autonomous aircraft air data inertial reference unit market. However, government policy & regulation regarding safety concerns of reliance on autonomous aircrafts during emergency events hinder the market growth. On the contrary, increased use of autonomous vehicles due to on-demand availability and rise in aerial platforms for urban mobility present new pathways in the industry.

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Autonomous aircraft reduces the risks of human error in difficult terrains or situation where humans can't operate. For instance, in 2020, DDC-I's (software developer of real-time operating systems headquartered in Arizona, US) Deos real-time operating system (RTOS) is selected by Maxar Technologies (space technology company headquartered in Colorado, US) to develop communications system for Sierra Nevada Corporation's (electronic systems provider based in Nevada, US) Dream Chaser Cargo System. The subsystem will provide on-board communication signal processing capabilities for the Dream Chaser Cargo System, a cargo transportation spacecraft being developed by SNC under the NASA commercial resupply services (CRS2) program. Deos is a field-proven, safety-critical, and avionics RTOS that has been utilized to host a multitude of flight-critical functions, such as air data computers, air data inertial reference units, cockpit displays, flight control, flight management, and engine control among others. Such surge in autonomy to reduce human errors will drive the global autonomous aircraft air data inertial reference unit market.

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