

Avionics Market Size, Share & Trends Analysis Report By System (Navigation Systems, Communication, Flight Management), By Component (Hardware, Software), By Platform, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Avionics Market Size & Trends

The global avionics market size was estimated at USD 44.68 billion in 2023 and is expected to grow at a CAGR of 9.7% from 2024 to 2030. The market growth can be attributed to increased demand for connected and economical aircraft systems. The rising global demand for domestic and international air travel across developing countries has increased orders for new commercial aircraft. This demand fuels the need for advanced avionics systems that ensure compliance with stringent safety regulations and enhance passenger experience. Airlines are investing in modernizing their fleets with updated and innovative avionics to remain competitive, improve fuel efficiency, and reduce operational costs. Thus, the expansion of the commercial aviation sector significantly boosts the market growth.

Moreover, the ongoing advancements in avionics technology, including integrating touchscreen interfaces, next-generation flight management systems, and advanced connectivity solutions, are significant growth drivers. These upgrades enhance aircraft operations' safety, efficiency, and performance, compelling both commercial and military sectors to update their avionics systems. This constant evolution and upgrade in technology attract airline companies to upgrade their fleets, driving market growth.

Stringent regulatory standards and safety requirements imposed by aviation authorities like the FAA (Federal Aviation Administration) and EASA (European Union Aviation Safety Agency) drive the demand for advanced avionics. These regulations mandate adopting cutting-edge avionics systems to ensure safety, reliability, and compliance. For instance, mandates such as ADS-B (Automatic Dependent Surveillance-Broadcast) equipage for enhanced air traffic management compel airlines and aircraft manufacturers to upgrade their avionics. This regulatory pressure accelerates the adoption of new technologies, contributing to market growth.

In addition, with growing geopolitical tensions globally, defense spending has significantly increased, particularly in upgrading and expanding military aircraft capabilities. This investment in enhanced avionics systems for surveillance, communication, and combat missions is a significant driver for the market. It signifies a shift towards implementing the latest and upgraded avionics that provide a strategic advantage, thereby boosting market growth.

Furthermore, the growing adoption of unmanned aerial vehicles (UAVs) for various applications, including surveillance, reconnaissance, and commercial uses, is a considerable growth driver for the market. UAVs require advanced avionics for navigation, control, and communication to perform their missions effectively. The increasing utilization of UAVs in sectors like agriculture, logistics, and defense stimulates demand for specialized avionics systems, fostering market expansion. The rapid development and deployment of UAV technology are expected to contribute to the continued market growth in the coming years.

Global Avionics Market Report Segmentation

This report forecasts and estimates revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has further segmented the global avionics market report based on system, component, platform, and region:

System Outlook (Revenue, USD Million, 2018 - 2030)

Navigation Systems

Communication

Flight Management

Traffic and Collision Management

Weather

Others

Component Outlook (Revenue, USD Million, 2018 - 2030)

Hardware

Software

Platform Outlook (Revenue, USD Million, 2018 - 2030)

Commercial Aviation

Military Aviation

Business and General Aviation

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Asia Pacific

Japan

China

India

Australia

South Korea

Latin America

Brazil

Middle East and Africa (MEA)

UAE

Saudi Arabia

South Africa

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