

Avionics Market by Platform (Military Aviation, Commercial Aviation, General Aviation, Special Mission Aviation), Fit, Systems and Region (North America, Europe, Asia Pacific, Middle East and Rest of the World) - Global Forecast to 2030

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Abstracts

The Avionics market is estimated to grow from USD 81.8 billion by 2030, from USD 43.4 billion in 2023, at a CAGR of 9.5% from 2023 to 2030. Constant innovation in avionic technologies, such as advanced communication systems, navigation solutions, and digital cockpit displays, fuels the demand for upgraded avionics across both commercial and military aircraft. The increasing demand for seamless data connectivity and communication capabilities in aircraft, driven by passenger expectations and operational requirements, stimulates the market for avionic systems facilitating reliable connectivity.

“Line Fit segment by fit is expected to hold the highest market share in 2023.”

Based on Fit, the avionics market is categorized into line fit and retro fit. The line fit segment having highest share of 91.3%. The increasing global demand for commercial and military aircraft drives the line fit avionics market. As aircraft manufacturers experience higher delivery and production rates, the demand for integrated avionic systems directly follows suit. Airlines seek avionic systems that improve overall operational efficiency, increase aircraft reliability, and enhance passenger experience. Line fit avionics that offer such operational enhancements become crucial for aircraft manufacturers to remain competitive. Overall, both line fit and retrofit segments are crucial for the sustainable growth of the avionics market.

“Commercial Aviation segment by platform is estimated to hold the highest market share in 2023.”

Based on Platform, the market is further divided into types, encompassing military aviation, commercial aviation, general aviation, and special mission aviation. Major industry players are actively engaged in developing advanced commercial aviation avionics systems to explore emerging opportunities in this market. The evolution of air traffic management systems, including initiatives such as SESAR (Single European Sky ATM Research) and NextGen in the United States, is driving the need for commercial avionics systems that can support more efficient and streamlined air traffic operations. With a growing emphasis on passenger comfort and entertainment, avionics systems that contribute to an enhanced in-flight experience, such as advanced in-flight entertainment systems and connectivity solutions, are key drivers for the commercial aviation sector.

“Navigation by systems segment is expected to hold the highest market share in 2023.”

Based on Systems, the avionics market is further segmented into Communication, Navigation, Electronic Flight Displays, Flight Management, Power & Data Management, Payload & Mission Management, Traffic & Collision Management and Weather Detection. Advancements in GNSS technologies, such as the implementation of new satellite constellations and improved satellite signal accuracy, drive the need for navigation avionics systems that can capitalize on these enhancements for more precise and reliable navigation. The importance of terrain awareness for safety in flight operations fuels the demand for navigation avionics systems with advanced TAWS capabilities. Systems that provide timely and accurate alerts regarding potential terrain conflicts are crucial for enhancing aviation safety. Systems that enable integrated communication and navigation contribute to more efficient and interconnected flight operations.

“North America is expected to hold the highest market share in 2023.”

Robust defense budgets in North America support military modernization efforts, leading to the incorporation of advanced avionics systems in military aircraft. The demand for state-of-the-art avionics solutions for fighter jets, surveillance aircraft, and other military platforms is a notable driver. With a substantial existing fleet, the North American aviation industry places significant emphasis on avionics upgrades and retrofits. Airlines and operators seek modernization solutions for older aircraft, driving the demand for retrofit avionics systems to enhance performance and compliance with evolving regulations.

North America covers the US and Canada for market analysis. In North America, major aircraft manufacturers like Boeing and Airbus continually invest in next-generation aircraft programs. The development of advanced platforms, such as the Boeing 737 MAX and Airbus A320neo families, creates opportunities for avionics systems with enhanced capabilities and features. The strategic partnerships and collaborations between avionics manufacturers and aerospace giants like Boeing and Airbus contribute to the growth of the avionics market. Joint initiatives often lead to the development of innovative avionics solutions tailored to specific aircraft models.

The break-up of the profile of primary participants in the Avionics market:

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C Level – 35%, Director Level – 25%, Others – 40%

By Region: North America – 25%, Europe – 15%, Asia Pacific – 45%, Latin America – 10%, Middle East – 5% & Rest of the World – 5%

Raytheon Technologies Corporation (US), Honeywell International Inc. (US), L3Harris Technologies, Inc. (US), General Electric Company (US), Thales Group (France). These key players offer connectivity applicable to various sectors and have well-equipped and strong distribution networks across North America, Europe, Asia Pacific, the Middle East, and ROW, including Africa and Latin America.

Research Coverage:

In terms of Solutions, the avionics market is divided into Products and retrofitting services. The fit segment of the avionics market is line Fit and retro fit.

The Platform based segmentation includes commercial aviation, military aviation, general aviation and special mission aircraft.

Based on Systems, the avionics market is further segmented into Communication, Navigation, Electronic Flight Displays, Flight Management, Power & Data Management, Payload & Mission Management, Traffic & Collision Management and Weather Detection

This report segments the Avionics market across five key regions: North America,

Europe, Asia Pacific, the Middle East & ROW (Africa and Latin America), along with their respective key countries. The report's scope includes in-depth information on significant factors, such as drivers, restraints, challenges, and opportunities that influence the growth of the avionics market.

A comprehensive analysis of major industry players has been conducted to provide insights into their business profiles, solutions, and services. This analysis also covers key aspects like agreements, collaborations, new product launches, contracts, expansions, acquisitions, and partnerships associated with the avionics market.

Reasons to buy this report:

This report serves as a valuable resource for market leaders and newcomers in the avionics market, offering data that closely approximates revenue figures for both the overall market and its subsegments. It equips stakeholders with a comprehensive understanding of the competitive landscape, facilitating informed decisions to enhance their market positioning and formulate effective go-to-market strategies for Simulation. The report imparts valuable insights into the market dynamics, offering information on crucial factors such as drivers, restraints, challenges, and opportunities, enabling stakeholders to gauge the market's pulse.

The report provides insights on the following pointers:

Analysis of the key driver (Rising aircraft production, Growing fleets of commercial and military aircraft, Increasing adoption of Flight Management and advanced Aircraft Computing Systems, Need for enhanced safety and situational awareness in aircraft), restraint (Stringent Regulatory Compliance, High Development Costs) opportunities (Integration of artificial intelligence (AI) in avionics systems, Advent of advanced connectivity solutions, Incorporation of airborne collision avoidance systems in general aviation aircraft) and challenges (Complexity of modern avionics systems, Risk of technological obsolescence, Vulnerability to cyber threats) there are several factors that could contribute to an increase in the avionics market.

Market Penetration: Comprehensive information on avionics systems offered by the top players in the market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the

avionics market

Market Development: Comprehensive information about lucrative markets – the report analyses the avionics market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the avionics market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the avionics market

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