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Global Aerospace Avionics Market Size Study, by Sub-System (Communication, Navigation, and Surveillance Systems, Flight Management Systems, Flight Control Systems, Health Monitoring Systems, Electrical and Emergency Systems), by Fit (Retrofit, Forward Fit), by Platform (Commercial Aviation, Military Aviation, Special Mission Aviation, General Aviation), by End-Use (OEM, Aftermarket), and Regional Forecasts 2022-2032

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Abstracts

The Global Aerospace Avionics Market was valued at USD 60.22 billion in 2023 and is projected to grow with a robust CAGR of 9.0% over the forecast period 2024-2032. Aerospace avionics referred to as avionics, is a specialized field of electronics that encompasses the design, development, installation, and maintenance of the electronic systems and devices used in aircraft and spacecraft. These systems include navigation, communication, flight control, monitoring, and safety equipment. Aerospace avionics play a critical role in the guidance and control of spacecraft as well as in ensuring safe and efficient civil and military aviation operations. They incorporate advanced technologies to enhance aircraft and spacecraft capabilities, safety, and performance while meeting stringent regulatory and operational requirements. The aerospace avionics market trends include the rapid integration of Artificial Intelligence (AI) and Machine Learning (ML) technologies into avionics systems, enhancing automation, predictive maintenance, and decision-making capabilities.
The development of more efficient and compact avionics components such as electronically steered antennas is reducing weight and improving fuel efficiency. The proliferation of connectivity solutions is enabling real-time data sharing for better

situational awareness and passenger experience. Sustainability is also a growing concern, with a major focus on the use of eco-friendly avionics technologies to reduce emissions and lower environmental impacts. These trends are collectively shifting the consumer focus towards smarter, more connected, and environmentally responsible avionics systems. The high manufacturing cost is a significant pitfall in the aerospace avionics market. Avionics systems require cutting-edge technology, quality assurance, and stringent testing to meet industry standards and safety regulations. This necessitates substantial investments in research, development, and manufacturing initiatives, thereby driving up production costs. These elevated costs can limit market accessibility for smaller manufacturers and put pressure on larger ones to optimize efficiency. It may also lead to increased prices for customers, thereby affecting affordability and the overall market competitiveness as well as hindering growth and innovations in the sector.

The key regions considered for the global aerospace avionics market study include North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. North America accounted for a significant aerospace avionics market share in 2023. The region is home to major aerospace manufacturers, such as Boeing and Lockheed Martin, driving demand for advanced avionics systems. North America has a robust defense sector, which invests heavily in avionics for military aircraft. The continent has a large commercial aviation industry, with airlines continually upgrading their avionics systems to improve safety and fuel efficiency. Technological innovations and research centers in the U.S. are fostering the development of avionics systems. Stringent safety regulations and the focus on aviation cybersecurity are encouraging investments in cutting-edge avionics technology, further propelling market trends. The Asia-Pacific region is projected to experience the highest growth rate during the forecast period 2024-2032.

Major market players included in this report are:
Airbus
BAE Systems
Boeing
Cobham Plc.
Elbit Systems Ltd.
General Dynamics Corporation
General Electric
Honeywell
L3 Harris Corporation
Leonardo S.P.A.

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Northrop Grumman
Raytheon Technologies Corporation
Saab AB
Safran S.A
Thales Group
The detailed segments and sub-segment of the market are explained below:
By Sub-System:
Communication, Navigation, and Surveillance Systems
Flight Management Systems
Flight Control Systems
Health Monitoring Systems
Electrical and Emergency Systems

By Fit:
Retrofit
Forward Fit

By Platform:
Commercial Aviation
Military Aviation
Special Mission Aviation
General Aviation

By End-Use:
OEM
Aftermarket

By Region:
North America
U.S.
Canada
Mexico

Europe
UK
Germany
France
Russia
Italy

Spain
Rest of Europe

Asia-Pacific
China
Japan
India
Australia
South Korea
Rest of Asia-Pacific

Latin America
Brazil
Mexico
Rest of Latin America

Middle East & Africa
Saudi Arabia
Africa
Rest of Middle East & Africa

Years considered for the study are as follows:
Historical year – 2022
Base year – 2023
Forecast period – 2024 to 2032

Key Takeaways:
Market Estimates & Forecast for 10 years from 2022 to 2032.
Annualized revenues and regional level analysis for each market segment.
Detailed analysis of geographical landscape with country-level analysis of major regions.
Competitive landscape with information on major players in the market.
Analysis of key business strategies and recommendations on future market approach.
Analysis of competitive structure of the market.
Demand-side and supply-side analysis of the market.

Contents

CHAPTER 11. RESEARCH PROCESS

List Of Tables

LIST OF TABLES

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

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List Of Figures

LIST OF FIGURES

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