

Aircraft Computers Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Platform (Fixed-wing Aircraft, Rotary-wing Aircraft, UAV), By Type (Flight Controls, Engine controls, Flight Management Computers, Mission Computers, Utility Controls), By End User (OEM, Aftermarket), By Region, & Competition, 2020-2030F

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## **Abstracts**

Global aircraft computers market was valued at USD 7.34 Billion in 2024 and is expected to reach USD 10.30 Billion by 2030 with a CAGR of 5.8% during the forecast period. The global aircraft computers market has witnessed substantial growth over the past few years, driven by advances in aviation technologies and an increasing demand for automation and efficiency in aircraft systems. These computers are crucial for a variety of functions such as flight controls, engine management, mission planning, and utility operations, enabling precise and reliable aircraft performance. The market is segmented based on platform, type, end-user, and geography. By platform, the market is divided into fixed-wing aircraft, rotary-wing aircraft, and UAVs, each contributing to the overall demand based on their distinct operational requirements. Flight control systems, engine control systems, flight management computers, mission computers, and utility controls represent the main types of aircraft computers, each serving a unique purpose in the operation of modern aircraft. The market is driven primarily by the growing aerospace and defense industry, increasing defense expenditure, and the shift towards more fuel-efficient, autonomous, and technologically advanced aircraft. Additionally, the market's expansion is fueled by the rising number of aircraft deliveries and increasing demand for unmanned aerial vehicles (UAVs), which rely heavily on advanced computing systems. The OEM and aftermarket segments cater to distinct customer bases, with OEMs driving the initial installation of advanced aircraft systems,



while aftermarket services focus on system upgrades, repairs, and replacements. Geographically, the market is diversified, with North America, Europe, and Asia-Pacific emerging as key regions, each experiencing varying growth rates depending on their aviation infrastructure and defense sector investments.

**Market Drivers** 

Technological Advancements and the Need for Automation

One of the primary drivers of the aircraft computers market is the rapid technological advancements in avionics and automation. Modern aircraft are equipped with complex systems for navigation, communication, and operational efficiency, all of which rely on sophisticated computing systems. The increasing demand for automation in aircraft operations has spurred growth in the market. Flight control systems, engine control systems, and flight management computers play critical roles in enhancing flight safety, optimizing fuel efficiency, and reducing human error. The trend towards automation in both commercial and military aviation is driving the need for highly reliable and efficient aircraft computers capable of managing multiple functions simultaneously. As a result, aircraft manufacturers and defense contractors are investing heavily in advanced computing technologies to integrate cutting-edge systems like fly-by-wire, autopilot, and Al-based predictive maintenance into aircraft.

Rising Demand for Unmanned Aerial Vehicles (UAVs)

The growing adoption of UAVs, or drones, is a significant driver for the aircraft computers market. UAVs, whether used for military, surveillance, or commercial purposes, rely on complex onboard computing systems for navigation, flight control, and mission execution. Unlike manned aircraft, UAVs require advanced autonomy and decision-making capabilities, which can only be achieved through the integration of sophisticated flight control and mission computers. The increasing investment in drone technology, combined with their applications in areas such as agriculture, logistics, and military surveillance, is fostering strong demand for UAV-related aircraft computers. As UAVs become more prevalent, there is a growing need for high-performance computing systems that can support longer flight durations, more complex mission types, and autonomous operations, further driving market growth.

Increased Defense and Aerospace Spending

Government and defense spending on advanced military aircraft is another major driver



of the aircraft computers market. Defense forces worldwide are increasingly investing in next-generation fighter jets, transport aircraft, and unmanned aerial systems, all of which demand cutting-edge computing systems for enhanced operational capabilities. The modernization of military fleets, especially in developing countries, is leading to increased demand for high-performance aircraft computers. Moreover, governments' growing focus on ensuring national security and technological supremacy has prompted investments in advanced avionics systems, including flight management computers, mission computers, and engine controls. Furthermore, international defense partnerships and collaborations are accelerating the development and procurement of sophisticated aircraft systems, contributing to the overall demand for aircraft computers.

## Key Market Challenges

## High Development and Maintenance Costs

The high cost associated with the development, integration, and maintenance of advanced aircraft computers is one of the major challenges faced by the market. Developing aircraft computers that meet the stringent requirements for reliability, safety, and performance requires significant investment in research and development. Additionally, the ongoing maintenance and upgrade of these systems add to the cost burden, particularly in the defense sector where long lifecycle management is necessary. These high costs can be a barrier for smaller manufacturers and defense agencies, particularly in emerging markets, limiting the adoption of advanced computing technologies in their fleets.

## Regulatory Challenges and Compliance

Aircraft computers must adhere to a wide range of industry regulations and standards, including those set by aviation authorities like the FAA and EASA. These regulations govern aspects such as safety, reliability, and data integrity, all of which are critical in ensuring that aircraft systems function without failure. Meeting these regulatory requirements can be time-consuming and expensive for manufacturers, as it often involves extensive testing, certification, and documentation. Additionally, different regions have varying standards, complicating the process for manufacturers looking to serve a global market. As the market for aircraft computers continues to grow, manufacturers must navigate these complex regulatory landscapes to ensure compliance and avoid costly delays or penalties.

### Cybersecurity Threats



With the increasing reliance on digital systems in aircraft operations, cybersecurity has become a significant concern. Aircraft computers, including flight controls, mission computers, and communication systems, are susceptible to cyberattacks, which could potentially jeopardize the safety and security of the aircraft. As aviation systems become more interconnected and rely on cloud-based technologies, the risk of hacking, data breaches, and system vulnerabilities increases. The complexity of securing these advanced systems against evolving threats presents a major challenge for manufacturers. Additionally, the need for real-time monitoring and response to potential cyber threats requires continuous investment in cybersecurity measures, further driving up operational costs.

**Key Market Trends** 

Adoption of Artificial Intelligence and Machine Learning

The integration of artificial intelligence (AI) and machine learning (ML) into aircraft computers is a growing trend. These technologies enable real-time decision-making, predictive maintenance, and autonomous operations, which are becoming increasingly essential in both military and commercial aviation. AI and ML algorithms can analyze vast amounts of flight data to optimize fuel consumption, improve flight paths, and enhance overall aircraft performance. In addition, AI-powered systems can monitor the health of aircraft components, detect anomalies, and predict when maintenance is needed, reducing downtime and improving operational efficiency.

Miniaturization of Computing Systems

Another key trend in the market is the miniaturization of aircraft computing systems. With the increasing demand for lightweight, compact, and efficient systems, manufacturers are focusing on developing smaller and more powerful aircraft computers that can fit into increasingly tight spaces. This trend is particularly important in the context of UAVs and smaller aircraft, where space and weight limitations are more pronounced. Miniaturization also leads to lower power consumption, which is critical for enhancing fuel efficiency and extending flight durations in unmanned and manned aircraft alike.

Shift Towards More Electric Aircraft

The growing emphasis on sustainability in aviation is driving the trend towards more



electric aircraft, which rely on advanced electrical and electronic systems, including aircraft computers, for their operation. These systems are integral to managing the energy flow in electric and hybrid-electric aircraft, ensuring optimal performance while minimizing emissions. The development of more efficient energy storage and distribution systems for electric aircraft is also fueling the demand for specialized aircraft computers that can manage these new technologies. This trend is expected to continue as aviation seeks to meet global sustainability goals.

## Segmental Insights

## Platform Insights

The fixed-wing aircraft segment represents the largest portion of the aircraft computers market, driven by the extensive use of sophisticated avionics systems in commercial airliners, cargo planes, and military jets. These aircraft rely heavily on advanced computing systems to ensure optimal flight performance, safety, and operational efficiency. Aircraft computers in this segment manage critical functions such as flight management, navigation, engine control, and communication systems. They enable precise control over aircraft trajectory, fuel optimization, and performance monitoring, which are essential for both commercial and military applications. The demand for aircraft computers in fixed-wing aircraft is largely influenced by ongoing aircraft production and modernization programs. As airlines and defense organizations continue to expand and upgrade their fleets, there is an increasing need for advanced avionics to support newer aircraft models and retrofit existing ones with state-of-the-art systems. The commercial aviation sector, in particular, is experiencing strong growth, with rising passenger demand and the need for fuel-efficient aircraft, which requires more sophisticated computing solutions for flight management and fuel consumption optimization. Additionally, military jets are being upgraded with more advanced avionics systems to support the latest defense technologies, further propelling market growth in this segment.

### Regional Insights

North America is the dominant region in the global aircraft computers market, driven by the robust presence of major aircraft manufacturers, defense contractors, and a highly developed aviation infrastructure. The United States plays a pivotal role in this dominance due to its advanced aerospace and defense industries, which are characterized by extensive investment in both commercial and military aviation sectors. The U.S. aerospace industry is home to some of the world's largest and most influential



aircraft manufacturers, including Boeing, Lockheed Martin, Northrop Grumman, and Raytheon Technologies. These companies not only design and manufacture commercial aircraft but also produce cutting-edge military aircraft, unmanned aerial vehicles (UAVs), and advanced avionics systems. The continuous production and modernization of commercial fleets, along with the development of next-generation military aircraft, contribute significantly to the demand for aircraft computers in this region. In particular, avionics systems such as flight control computers, engine control systems, and mission computers are integral to the operation of both military and commercial aircraft, driving the growth of the market. The strong defense sector in the U.S. is another key factor propelling the growth of the aircraft computers market in North America. The U.S. government spends a significant portion of its budget on defense, which includes the procurement of advanced fighter jets, surveillance aircraft, and UAVs, all of which rely on sophisticated computing systems for flight control, mission execution, and communication. The demand for highly reliable and advanced aircraft computers is particularly prominent in the military sector, where systems must meet rigorous standards for safety, security, and performance under various operational conditions.

**Key Market Players** 

BAE Systems plc

Cobham Limited

**Curtiss-Wright Corporation** 

Esterline Technologies Corporation

Saab AB

Rockwell Collins, Inc.

**United Technologies Corporation** 

Thales Group

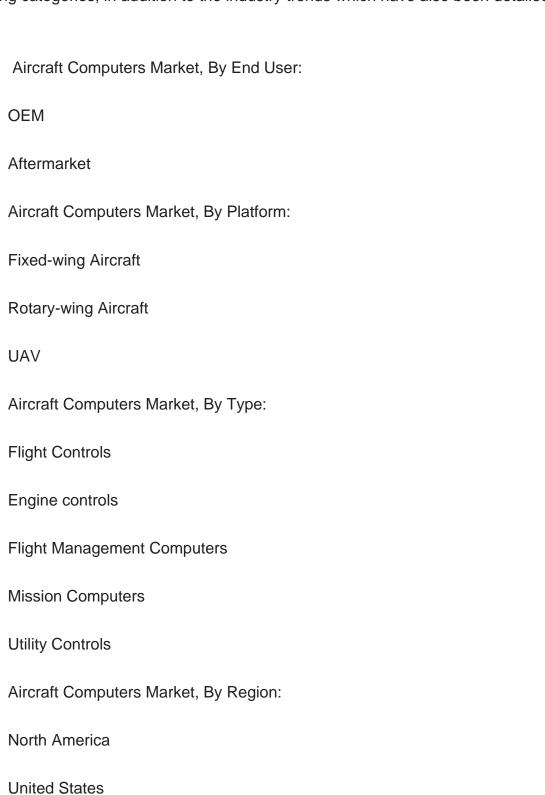
Honeywell International Inc.

Safran S.A.



## Report Scope:

In this report, the global aircraft computers market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:





Canada
Mexico
Europe & CIS
France
Germany
Spain
Russia
Italy
United Kingdom
Belgium
Asia-Pacific
China
Japan
India
Indonesia
Thailand
Australia
South Korea
Middle East & Africa



South Africa
Saudi Arabia
UAE
Turkey
South America
Brazil
Argentina
Colombia
Competitive Landscape
Company Profiles: Detailed analysis of the major companies presents in the global aircraft computers market.
Available Customizations:
Global Aircraft Computers market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
Detailed analysis and profiling of additional market players (up to five).



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  - 14.1.8.2. Product
  - 14.1.8.3. Financials (As Per Availability)
  - 14.1.8.4. Key Market Focus & Geographical Presence
  - 14.1.8.5. Recent Developments
  - 14.1.8.6. Key Management Personnel
- 14.1.9. Honeywell International Inc.
- 14.1.9.1. Company Details
- 14.1.9.2. Product
- 14.1.9.3. Financials (As Per Availability)
- 14.1.9.4. Key Market Focus & Geographical Presence
- 14.1.9.5. Recent Developments
- 14.1.9.6. Key Management Personnel
- 14.1.10. Safran S.A.



- 14.1.10.1. Company Details
- 14.1.10.2. Product
- 14.1.10.3. Financials (As Per Availability)
- 14.1.10.4. Key Market Focus & Geographical Presence
- 14.1.10.5. Recent Developments
- 14.1.10.6. Key Management Personnel

## 15. STRATEGIC RECOMMENDATIONS/ACTION PLAN

- 15.1. Key Focus Areas
  - 15.1.1. Target Platform
  - 15.1.2. Target Type
  - 15.1.3. Target Region

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