

Global Autonomous Aircraft Flight Management Computers Market Size Study, by Technology (Fully Autonomous, Increasingly Autonomous), by End-User (Passenger Air Vehicle, Personal Air Vehicle, Combat & Intelligence, Surveillance, and Reconnaissance (ISR), Air Medical Services, Cargo & Delivery Aircraft, Others) and Regional Forecasts 2022-2032

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Abstracts

Global Autonomous Aircraft Flight Management Computers Market is valued at USD 9.22 Billion in 2023 and is anticipated to grow with a 17.09 growth rate over the forecast period 2024-2032. Autonomous aircraft flight management computers (FMCs) are sophisticated onboard systems that enable aircraft to operate with minimal or no human intervention. These computers integrate various functionalities to manage and control the aircraft's flight operations autonomously. Advanced control systems and asset management are integral in providing real-time information on engine conditions and the performance of aircraft components. This proactive approach in scheduling and maintenance boosts productivity and reduces downtime, further increasing the demand for autonomous aircraft flight management computers. Thus, the rising adoption of artificial intelligence (AI) is expected to drive market revenue during the forecast period. The increasing adoption of artificial intelligence (AI), coupled with a rise in the number of passengers, a heightened demand for passenger information systems, and a drive to reduce accidents are pivotal factors propelling the market growth. Autonomous aircraft equipped with advanced flight management computers reduce human error risks, especially in hazardous environments where human operation is challenging. For instance, the US Air Force has set a goal to conduct a face-off between an AI-driven autonomous drone and a human-piloted fighter jet, underscoring the potential and reliance on AI in military aviation. The growing number of travelers is pushing nations to

invest heavily in the infrastructure for autonomous aircraft. Increasing government investments in autonomous aircraft infrastructure are anticipated to boost demand for this technology, thereby accelerating industry growth. Passenger information systems, which provide real-time updates, route information, scheduling, travel planning, internet connectivity solutions, and infotainment, are expected to significantly drive market growth due to their importance in improving passenger experience and operational efficiency.

The key regions considered for the global autonomous aircraft flight management computers market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. In 2023, North America dominates the market in terms of revenue, owing to increased investments in R&D and a growing number of autonomous aircraft. The region's major aerospace manufacturers and technology firms drive demand for sophisticated flight management systems, integrating autonomous features to enhance safety and efficiency. Robust infrastructure, strong research and development capabilities, and stringent safety regulations further bolster North America's market dominance. Additionally, the growing focus on innovation and the adoption of autonomous technologies in aviation contribute to the region's leadership, positioning it at the forefront of advancements in flight management systems. Europe holds the second-largest market share, driven by the military sector's demand for surveillance and combat applications. The Asia-Pacific region is expected to grow at the fastest rate due to significant expenditures on next-generation products.

Major market players included in this report are:

Textron Inc.

Northrop Grumman Corporation

Saab AB

Boeing

Aeronautics Ltd.

Elbit Systems Ltd.

Airbus S.A.S

BAE Systems Plc

Rockwell Collins

Lockheed Martin Corporation

The detailed segments and sub-segment of the market are explained below:

By Technology:

Fully Autonomous
Increasingly Autonomous

By End-User:

Passenger Air Vehicle

Personal Air Vehicle

Combat & Intelligence, Surveillance, and Reconnaissance (ISR)

Air Medical Services

Cargo & Delivery Aircraft

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia
South Africa
RoMEA

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.

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