

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.

Contents

CHAPTER 1. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT COMPUTERS MARKET EXECUTIVE SUMMARY

- 1.1. Global Autonomous Aircraft Flight Management Computers Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technology
 - 1.3.2. By End-User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT COMPUTERS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT

Global Autonomous Aircraft Flight Management Computers Market Size Study, by Technology (Fully Autonomous, Inc...

COMPUTERS MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Growing adoption of artificial intelligence (AI)
- 3.1.2. Increase in number of passengers
- 3.1.3. Demand for passenger information systems

3.2. Market Challenges

- 3.2.1. High costs associated with development and deployment
- 3.2.2. Regulatory and safety concerns

3.3. Market Opportunities

- 3.3.1. Technological advancements in AI and autonomous systems
- 3.3.2. Expansion in emerging markets
- 3.3.3. Development of next-generation autonomous aircraft

CHAPTER 4. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT COMPUTERS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT

COMPUTERS MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

5.1. Segment Dashboard

5.2. Global Autonomous Aircraft Flight Management Computers Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Fully Autonomous

5.2.2. Increasingly Autonomous

CHAPTER 6. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT COMPUTERS MARKET SIZE & FORECASTS BY END-USER 2022-2032

6.1. Segment Dashboard

6.2. Global Autonomous Aircraft Flight Management Computers Market: End-User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Passenger Air Vehicle

6.2.2. Personal Air Vehicle

6.2.3. Combat & Intelligence, Surveillance, and Reconnaissance (ISR)

6.2.4. Air Medical Services

6.2.5. Cargo & Delivery Aircraft

6.2.6. Others

CHAPTER 7. GLOBAL AUTONOMOUS AIRCRAFT FLIGHT MANAGEMENT COMPUTERS MARKET SIZE & FORECASTS BY REGION 2022-2032

7.1. North America Autonomous Aircraft Flight Management Computers Market

7.1.1. U.S. Autonomous Aircraft Flight Management Computers Market

7.1.1.1. Technology breakdown size & forecasts, 2022-2032

7.1.1.2. End-User breakdown size & forecasts, 2022-2032

7.1.2. Canada Autonomous Aircraft Flight Management Computers Market

7.2. Europe Autonomous Aircraft Flight Management Computers Market

7.2.1. U.K. Autonomous Aircraft Flight Management Computers Market

7.2.2. Germany Autonomous Aircraft Flight Management Computers Market

7.2.3. France Autonomous Aircraft Flight Management Computers Market

7.2.4. Spain Autonomous Aircraft Flight Management Computers Market

7.2.5. Italy Autonomous Aircraft Flight Management Computers Market

7.2.6. Rest of Europe Autonomous Aircraft Flight Management Computers Market

7.3. Asia-Pacific Autonomous Aircraft Flight Management Computers Market

7.3.1. China Autonomous Aircraft Flight Management Computers Market

7.3.2. India Autonomous Aircraft Flight Management Computers Market

- 7.3.3. Japan Autonomous Aircraft Flight Management Computers Market
- 7.3.4. Australia Autonomous Aircraft Flight Management Computers Market
- 7.3.5. South Korea Autonomous Aircraft Flight Management Computers Market
- 7.3.6. Rest of Asia Pacific Autonomous Aircraft Flight Management Computers Market
- 7.4. Latin America Autonomous Aircraft Flight Management Computers Market
 - 7.4.1. Brazil Autonomous Aircraft Flight Management Computers Market
 - 7.4.2. Mexico Autonomous Aircraft Flight Management Computers Market
 - 7.4.3. Rest of Latin America Autonomous Aircraft Flight Management Computers Market
- 7.5. Middle East & Africa Autonomous Aircraft Flight Management Computers Market
 - 7.5.1. Saudi Arabia Autonomous Aircraft Flight Management Computers Market
 - 7.5.2. South Africa Autonomous Aircraft Flight Management Computers Market
 - 7.5.3. Rest of Middle East & Africa Autonomous Aircraft Flight Management Computers Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Company
 - 8.1.2. Company
 - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Boeing
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Market Strategies
 - 8.3.2. Aeronautics Ltd.
 - 8.3.3. Elbit Systems Ltd.
 - 8.3.4. Airbus S.A.S
 - 8.3.5. BAE Systems Plc
 - 8.3.6. Rockwell Collins
 - 8.3.7. Lockheed Martin Corporation
 - 8.3.8. Textron Inc.
 - 8.3.9. Northrop Grumman Corporation
 - 8.3.10. Saab AB

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

9.1.2. Analysis

9.1.3. Market Estimation

9.1.4. Validation

9.1.5. Publishing

9.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Autonomous Aircraft Flight Management Computers market, report scope

TABLE 2. Global Autonomous Aircraft Flight Management Computers market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Autonomous Aircraft Flight Management Computers market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 4. Global Autonomous Aircraft Flight Management Computers market estimates & forecasts by End-User 2022-2032 (USD Billion)

TABLE 5. Global Autonomous Aircraft Flight Management Computers market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 6. Global Autonomous Aircraft Flight Management Computers market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Autonomous Aircraft Flight Management Computers market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Autonomous Aircraft Flight Management Computers market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Autonomous Aircraft Flight Management Computers market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Autonomous Aircraft Flight Management Computers market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Autonomous Aircraft Flight Management Computers market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Autonomous Aircraft Flight Management Computers market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Autonomous Aircraft Flight Management Computers market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Autonomous Aircraft Flight Management Computers market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Autonomous Aircraft Flight Management Computers market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Autonomous Aircraft Flight Management Computers market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Autonomous Aircraft Flight Management Computers market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Autonomous Aircraft Flight Management Computers market

estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Autonomous Aircraft Flight Management Computers market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Autonomous Aircraft Flight Management Computers market estimates & forecasts by segment 2022-2032 (USD Billion)

.....

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

List Of Figures

LIST OF FIGURES

FIG 1. Global Autonomous Aircraft Flight Management Computers market, research methodology

FIG 2. Global Autonomous Aircraft Flight Management Computers market, market estimation techniques

FIG 3. Global market size estimates & forecast methods.

FIG 4. Global Autonomous Aircraft Flight Management Computers market, key trends 2023

FIG 5. Global Autonomous Aircraft Flight Management Computers market, growth prospects 2022-2032

FIG 6. Global Autonomous Aircraft Flight Management Computers market, porters 5 force model

FIG 7. Global Autonomous Aircraft Flight Management Computers market, PESTEL analysis

FIG 8. Global Autonomous Aircraft Flight Management Computers market, value chain analysis

FIG 9. Global Autonomous Aircraft Flight Management Computers market by segment, 2022 & 2032 (USD Billion)

FIG 10. Global Autonomous Aircraft Flight Management Computers market by segment, 2022 & 2032 (USD Billion)

FIG 11. Global Autonomous Aircraft Flight Management Computers market by segment, 2022 & 2032 (USD Billion)

FIG 12. Global Autonomous Aircraft Flight Management Computers market by segment, 2022 & 2032 (USD Billion)

FIG 13. Global Autonomous Aircraft Flight Management Computers market by segment, 2022 & 2032 (USD Billion)

FIG 14. Global Autonomous Aircraft Flight Management Computers market, regional snapshot 2022 & 2032

FIG 15. North America Autonomous Aircraft Flight Management Computers market 2022 & 2032 (USD Billion)

FIG 16. Europe Autonomous Aircraft Flight Management Computers market 2022 & 2032 (USD Billion)

FIG 17. Asia pacific Autonomous Aircraft Flight Management Computers market 2022 & 2032 (USD Billion)

FIG 18. Latin America Autonomous Aircraft Flight Management Computers market 2022 & 2032 (USD Billion)

FIG 19. Middle East & Africa Autonomous Aircraft Flight Management Computers market 2022 & 2032 (USD Billion)

FIG 20. Global Autonomous Aircraft Flight Management Computers market, company market share analysis (2023)

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