

Global Commercial Avionics Systems Market Size Study, by Aircraft Type (Narrow Body, Wide Body, Regional & Business Jet, Freighter), by Sub System (Flight Management and Control, Health Monitoring, Electrical and Emergency, Communication Navigation and Surveillance, Others), by Fit (Retrofit, Forward Fit) and Regional Forecasts 2022-2032

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Abstracts

The Global Commercial Avionics Systems Market is valued approximately at USD 38.42 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.31% over the forecast period 2024-2032. Commercial avionics systems encompass a diverse array of flight sub-systems, including health monitoring systems, flight management, flight control, navigation and surveillance systems, electrical and emergency systems, communication systems, and systems electronics. These systems integrate autonomous computer control components and electronic devices that receive inputs from engine controls or flight control surfaces, subsequently providing outputs to flight management systems. Flight management systems, in particular, serve a multi-purpose role, delivering navigation, performance, and operational data that enhance the synergy of aircraft operations from pre-engine start to landing and engine shutdown. The increasing need for real-time data and navigation systems within the commercial avionics systems industry is a pivotal driver for market growth.

The global market for commercial avionics systems is experiencing robust growth, driven by a confluence of key factors. The surge in the number of aircraft deliveries, especially in emerging economies, underscores the escalating demand for in-flight entertainment (IFE) services and the critical need for real-time data. For instance, advancements in avionics technology, exemplified by next-generation communication, navigation, and surveillance systems like the Automatic Dependent Surveillance-

Broadcast (ADS-B), significantly enhance flight safety and operational efficiency. These advanced systems facilitate better air traffic management through real-time data, which is crucial for informed decision-making processes. However, the regulatory framework governing the aviation industry and the inherent vulnerability to cyber-attacks present substantial challenges that could impede market growth between 2022 and 2032.

The key regions considered for the global Commercial Avionics Systems market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. In 2023, North America emerged as the dominant regional market, propelled by the presence of major industry players such as Honeywell International Inc. and Raytheon Technologies Corporation. The region's robust aviation infrastructure, coupled with stringent safety regulations enforced by the Federal Aviation Administration (FAA), fosters an environment conducive to the adoption of cutting-edge avionics technologies. Conversely, the market in Asia Pacific is poised to exhibit the fastest growth rate over the forecast period. This growth trajectory is primarily attributed to rapid economic development in countries like China and India, leading to increased air travel demand and subsequent airline expansion.

Major market players included in this report are:

L3 Harris Technologies
BAE Systems PLC
General Electric
Raytheon Technologies Corporation
Honeywell International Inc.
Thales Group
Meggitt PLC
Teledyne Technologies Inc
Universal Avionics Systems Corporation
Panasonic Corporation
Safran S.A.
Garmin Ltd.
Collins Aerospace
Curtiss-Wright Corporation
Esterline Technologies Corporation

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

By Aircraft Type

- Narrow Body
- Wide Body
- Regional & Business Jet
- Freighter

By Sub System

- Flight management and control
- Health monitoring
- Electrical and emergency
- Communication navigation and surveillance
- Others

By Fit

- Retrofit
- Forward Fit

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
- RoLA

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 COMMERCIAL AVIONICS SYSTEMS MARKET EXECUTIVE SUMMARY

- 1.1. Global Commercial Avionics Systems Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Aircraft Type
 - 1.3.2. By Sub System
 - 1.3.3. By Fit
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL COMMERCIAL AVIONICS SYSTEMS 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 COMMERCIAL AVIONICS SYSTEMS MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Technological Advancements
- 3.1.2. Rising Demand for Air Travel
- 3.1.3. Regulatory Mandates

3.2. Market Challenges

- 3.2.1. High Development and Installation Costs
- 3.2.2. Cybersecurity Concerns

3.3. Market Opportunities

- 3.3.1. Emerging Markets
- 3.3.2. Integration of Artificial Intelligence (AI)
- 3.3.3. Development of Next-Gen Avionics Systems

CHAPTER 4. GLOBAL COMMERCIAL AVIONICS SYSTEMS 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 COMMERCIAL AVIONICS SYSTEMS MARKET SIZE & FORECASTS BY AIRCRAFT TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Commercial Avionics Systems Market: Aircraft Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Narrow Body

5.2.2. Wide Body

5.2.3. Regional & Business Jet

5.2.4. Freighter

CHAPTER 6. GLOBAL COMMERCIAL AVIONICS SYSTEMS MARKET SIZE & FORECASTS BY SUB SYSTEM 2022-2032

6.1. Segment Dashboard

6.2. Global Commercial Avionics Systems Market: Sub System Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Flight Management and Control

6.2.2. Health Monitoring

6.2.3. Electrical and Emergency

6.2.4. Communication Navigation and Surveillance

6.2.5. Others

CHAPTER 7. GLOBAL COMMERCIAL AVIONICS SYSTEMS MARKET SIZE & FORECASTS BY FIT 2022-2032

7.1. Segment Dashboard

7.2. Global Commercial Avionics Systems Market: Fit Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Retrofit

7.2.2. Forward Fit

CHAPTER 8. GLOBAL COMMERCIAL AVIONICS SYSTEMS MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Commercial Avionics Systems Market

8.1.1. U.S. Commercial Avionics Systems Market

8.1.1.1. Aircraft Type breakdown size & forecasts, 2022-2032

8.1.1.2. Sub System breakdown size & forecasts, 2022-2032

8.1.1.3. Fit breakdown size & forecasts, 2022-2032

8.1.2. Canada Commercial Avionics Systems Market

- 8.2. Europe Commercial Avionics Systems Market
 - 8.2.1. U.K. Commercial Avionics Systems Market
 - 8.2.2. Germany Commercial Avionics Systems Market
 - 8.2.3. France Commercial Avionics Systems Market
 - 8.2.4. Spain Commercial Avionics Systems Market
 - 8.2.5. Italy Commercial Avionics Systems Market
 - 8.2.6. Rest of Europe Commercial Avionics Systems Market
- 8.3. Asia-Pacific Commercial Avionics Systems Market
 - 8.3.1. China Commercial Avionics Systems Market
 - 8.3.2. India Commercial Avionics Systems Market
 - 8.3.3. Japan Commercial Avionics Systems Market
 - 8.3.4. Australia Commercial Avionics Systems Market
 - 8.3.5. South Korea Commercial Avionics Systems Market
 - 8.3.6. Rest of Asia Pacific Commercial Avionics Systems Market
- 8.4. Latin America Commercial Avionics Systems Market
 - 8.4.1. Brazil Commercial Avionics Systems Market
 - 8.4.2. Mexico Commercial Avionics Systems Market
 - 8.4.3. Rest of Latin America Commercial Avionics Systems Market
- 8.5. Middle East & Africa Commercial Avionics Systems Market
 - 8.5.1. Saudi Arabia Commercial Avionics Systems Market
 - 8.5.2. South Africa Commercial Avionics Systems Market
 - 8.5.3. Rest of Middle East & Africa Commercial Avionics Systems Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. L3 Harris Technologies
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. BAE Systems PLC
 - 9.3.3. General Electric

- 9.3.4. Raytheon Technologies Corporation
- 9.3.5. Honeywell International Inc.
- 9.3.6. Thales Group
- 9.3.7. Meggitt PLC
- 9.3.8. Teledyne Technologies Inc
- 9.3.9. Universal Avionics Systems Corporation
- 9.3.10. Panasonic Corporation
- 9.3.11. Safran S.A.
- 9.3.12. Garmin Ltd.
- 9.3.13. Collins Aerospace
- 9.3.14. Curtiss-Wright Corporation
- 9.3.15. Esterline Technologies Corporation

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Commercial Avionics Systems market, report scope
- TABLE 2. Global Commercial Avionics Systems market estimates & forecasts by Region 2022-2032 (USD Billion)
- TABLE 3. Global Commercial Avionics Systems market estimates & forecasts by Aircraft Type 2022-2032 (USD Billion)
- TABLE 4. Global Commercial Avionics Systems market estimates & forecasts by Sub System 2022-2032 (USD Billion)
- TABLE 5. Global Commercial Avionics Systems market estimates & forecasts by Fit 2022-2032 (USD Billion)
- TABLE 6. Global Commercial Avionics Systems market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 7. Global Commercial Avionics Systems market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 8. Global Commercial Avionics Systems market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 9. Global Commercial Avionics Systems market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 10. Global Commercial Avionics Systems market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 11. Global Commercial Avionics Systems market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 12. Global Commercial Avionics Systems market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 13. Global Commercial Avionics Systems market by region, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 14. Global Commercial Avionics Systems market by segment, estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 15. U.S. Commercial Avionics Systems market estimates & forecasts, 2022-2032 (USD Billion)
- TABLE 16. U.S. Commercial Avionics Systems market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 17. U.S. Commercial Avionics Systems market estimates & forecasts by segment 2022-2032 (USD Billion)
- TABLE 18. Canada Commercial Avionics Systems market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Commercial Avionics Systems market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 20. Canada Commercial Avionics Systems 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 Commercial Avionics Systems market, research methodology
- FIG 2. Global Commercial Avionics Systems market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Commercial Avionics Systems market, key trends 2023
- FIG 5. Global Commercial Avionics Systems market, growth prospects 2022-2032
- FIG 6. Global Commercial Avionics Systems market, porters 5 force model
- FIG 7. Global Commercial Avionics Systems market, PESTEL analysis
- FIG 8. Global Commercial Avionics Systems market, value chain analysis
- FIG 9. Global Commercial Avionics Systems market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Commercial Avionics Systems market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Commercial Avionics Systems market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Commercial Avionics Systems market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Commercial Avionics Systems market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Commercial Avionics Systems market, regional snapshot 2022 & 2032
- FIG 15. North America Commercial Avionics Systems market 2022 & 2032 (USD Billion)
- FIG 16. Europe Commercial Avionics Systems market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Commercial Avionics Systems market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Commercial Avionics Systems market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Commercial Avionics Systems market 2022 & 2032 (USD Billion)
- FIG 20. Global Commercial Avionics Systems market, company market share analysis (2023)

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