

Europe Commercial Avionics Systems Market Size, Share, Trends & Analysis by Sub-System (Flight Management and Control, Health Monitoring, Electrical and Emergency, Communication Navigation and Surveillance, Others), by Aircraft Type (Narrow Body, Wide Body, Business Jet, Freightler), by Fit (Retrofit, Forward Fit) and Region, with Forecasts from 2025 to 2034.

<https://marketpublishers.com/r/E8DCC85B7C40EN.html>

Date: July 2026

Pages: 214

Price: US\$ 3,585.00 (Single User License)

ID: E8DCC85B7C40EN

Abstracts

The Europe Commercial Avionics Systems Market is expected to witness steady growth from 2025 to 2034, driven by rising aircraft production, increasing focus on flight safety, and growing demand for next-generation cockpit and navigation technologies. Valued at USD XX.XX billion in 2025, the market is projected to reach USD XX.XX billion by 2034, expanding at a CAGR of XX.XX%. Commercial avionics systems are integral to enhancing flight efficiency, communication, navigation, monitoring, and overall operational safety across both existing and newly manufactured aircraft.

Definition and Scope of Commercial Avionics Systems

Commercial avionics systems encompass a wide range of electronic systems used in aircraft for communication, navigation, flight management, health monitoring, and emergency response. These systems support real-time data exchange between aircraft and ground control, efficient route management, and optimal flight performance. The market is increasingly shifting toward integrated, modular, and software-driven avionics architectures that improve aircraft interoperability, reduce maintenance costs, and

enhance safety standards.

Market Drivers

Increasing Focus on Flight Safety and Efficiency: The growing emphasis on airspace safety, efficient route management, and fuel optimization is propelling demand for advanced avionics solutions across passenger and cargo aircraft.

Fleet Modernization and Retrofit Programs: Airline efforts to upgrade legacy aircraft with modern avionics suites, including flight management systems, digital displays, and enhanced surveillance technologies, are fueling market growth.

Technological Advancements in Avionics Systems: Integration of artificial intelligence (AI), predictive maintenance systems, and advanced flight control technologies is advancing cockpit automation and operational decision-making.

Rising Air Traffic and Aircraft Deliveries: Increasing air passenger traffic and expanding aircraft fleets across major European nations are driving demand for advanced avionics solutions in forward-fit and retrofit segments.

Market Restraints

High Cost of Installation and Maintenance: The complexity and high installation costs of advanced avionics systems can limit adoption, particularly among smaller regional carriers.

Regulatory and Certification Challenges: Stringent aviation regulations and long certification cycles can delay product launches and increase development costs for avionics manufacturers.

Cybersecurity Concerns: Rising aircraft connectivity creates data security and system vulnerability challenges, requiring continuous investment in secure avionics solutions.

Opportunities

Growing Adoption of AI and IoT in Avionics: Integration of smart technologies, including AI-based flight optimization and real-time health monitoring systems, offers new growth avenues for avionics suppliers.

Expansion of Electric and Hybrid Aircraft Programs: Increasing focus on sustainable aviation and electrified propulsion systems is generating

Opportunities

for avionics providers to develop energy-efficient systems.

Rising Demand for Business Jets and Freighters: Growing business travel and e-commerce activities are driving production of specialized aircraft and demand for customized avionics suites.

Development of Integrated Modular Avionics (IMA): The shift toward IMA architectures enables multiple avionics functions to operate on shared computing resources, reducing aircraft weight, cost, and maintenance efforts.

Market Segmentation Analysis

By Sub-System

Flight Management and Control

Health Monitoring

Electrical and Emergency

Communication, Navigation, and Surveillance

Others

By Aircraft Type

Narrow Body

Wide Body

Business Jet

Freighter

By Fit

Retrofit

Forward Fit

Regional Analysis

Western Europe: Dominates the market with a strong presence of key aircraft manufacturers such as Airbus, alongside extensive investments in avionics R&D and production capabilities.

Eastern Europe: Experiencing gradual growth due to modernization of regional fleets, increasing low-cost carrier operations, and rising maintenance, repair, and overhaul (MRO) activities.

Northern & Southern Europe: Witnessing growing adoption of advanced avionics systems supported by expanding airport infrastructure, increased tourism, and the rise of regional air connectivity programs.

Competitive Landscape

The Europe Commercial Avionics Systems Market continues to evolve with advancements in AI-driven flight technologies, increasing aircraft deliveries, and growing demand for energy-efficient avionics solutions. Key players in the market include:

Honeywell International Inc.

Thales Group

BAE Systems plc

Collins Aerospace (Raytheon Technologies Corporation)

Safran S.A.

GE Aviation

Garmin Ltd.

L3Harris Technologies, Inc.

Leonardo S.p.A.

Curtiss-Wright Corporation

Contents

1. INTRODUCTION

- 1.1. Definition of Commercial Avionics Systems
- 1.2. Scope of the Report
- 1.3. Research Methodology

2. EXECUTIVE SUMMARY

- 2.1. Key Findings
- 2.2. Market Snapshot
- 2.3. Key Trends

3. MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Growth in European Aircraft Deliveries
 - 3.1.2. Rising Demand for Advanced Flight Safety and Navigation Systems
 - 3.1.3. Technological Advancements in Avionics Systems
 - 3.1.4. Other Market Drivers
- 3.2. Market Restraints
 - 3.2.1. High Cost of Avionics Systems
 - 3.2.2. Stringent Regulatory Compliance and Certification Requirements
 - 3.2.3. Other Market Restraints
- 3.3. Market Opportunities
 - 3.3.1. Adoption of Retrofit Solutions in Aging Aircraft Fleets
 - 3.3.2. Integration of AI and IoT in Avionics Systems
 - 3.3.3. Expansion of Aircraft Fleet Modernization Programs
 - 3.3.4. Other Market Opportunities

4. EUROPE COMMERCIAL AVIONICS SYSTEMS MARKET ANALYSIS

- 4.1. Market Size and Forecast (2025–2034)
- 4.2. Market Share Analysis by:
 - 4.2.1. Sub-System
 - 4.2.1.1. Flight Management and Control
 - 4.2.1.2. Health Monitoring
 - 4.2.1.3. Electrical and Emergency

- 4.2.1.4. Communication, Navigation, and Surveillance
- 4.2.1.5. Others
- 4.2.2. Aircraft Type
 - 4.2.2.1. Narrow Body
 - 4.2.2.2. Wide Body
 - 4.2.2.3. Business Jet
 - 4.2.2.4. Freighter
- 4.2.3. Fit
 - 4.2.3.1. Retrofit
 - 4.2.3.2. Forward Fit
- 4.3. Value Chain Analysis
- 4.4. SWOT Analysis
- 4.5. Porter's Five Forces Analysis

5. REGIONAL MARKET ANALYSIS

- 5.1. Germany
 - 5.1.1. Market Overview
 - 5.1.2. Market Size and Forecast
 - 5.1.3. Key Trends
 - 5.1.4. Competitive Landscape
- 5.2. France
 - 5.2.1. Market Overview
 - 5.2.2. Market Size and Forecast
 - 5.2.3. Key Trends
 - 5.2.4. Competitive Landscape
- 5.3. United Kingdom
 - 5.3.1. Market Overview
 - 5.3.2. Market Size and Forecast
 - 5.3.3. Key Trends
 - 5.3.4. Competitive Landscape
- 5.4. Italy
 - 5.4.1. Market Overview
 - 5.4.2. Market Size and Forecast
 - 5.4.3. Key Trends
 - 5.4.4. Competitive Landscape
- 5.5. Rest of Europe
 - 5.5.1. Market Overview
 - 5.5.2. Market Size and Forecast

5.5.3. Key Trends

5.5.4. Competitive Landscape

6. COMPETITIVE LANDSCAPE

6.1. Market Share Analysis of Key Players

6.2. Company Profiles of Key Players

6.2.1. Honeywell International Inc.

6.2.2. Collins Aerospace

6.2.3. Thales Group

6.2.4. Garmin Ltd.

6.2.5. L3Harris Technologies, Inc.

6.2.6. Elbit Systems Ltd.

6.2.7. Moog Inc.

6.2.8. Universal Avionics Systems Corporation

6.2.9. Safran SA

6.2.10. Rockwell Collins, Inc.

6.3. Recent Developments and Innovations

6.4. Strategic Initiatives

7. FUTURE OUTLOOK AND MARKET FORECAST

7.1. Market Growth Prospects

7.2. Technological Trends and Innovations

7.3. Investment Opportunities

7.4. Strategic Recommendations

8. KEY INSIGHTS AND REITERATION OF MAIN FINDINGS

9. FUTURE PROSPECTS FOR THE EUROPE COMMERCIAL AVIONICS SYSTEMS MARKET

List Of Tables

LIST OF TABLES

Table 1: Europe Commercial Avionics Systems Market, 2025-2034 (USD Billion)
Table 2: Europe Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)
Table 3: Europe Avionics Systems Market, By Flight Management and Control Sub-System, 2025-2034 (USD Billion)
Table 4: Europe Avionics Systems Market, By Health Monitoring Sub-System, 2025-2034 (USD Billion)
Table 5: Europe Avionics Systems Market, By Electrical and Emergency Sub-System, 2025-2034 (USD Billion)
Table 6: Europe Avionics Systems Market, By Communication, Navigation, and Surveillance Sub-System, 2025-2034 (USD Billion)
Table 7: Europe Avionics Systems Market, By Other Sub-Systems, 2025-2034 (USD Billion)
Table 8: Europe Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)
Table 9: Europe Avionics Systems Market, By Narrow Body Aircraft, 2025-2034 (USD Billion)
Table 10: Europe Avionics Systems Market, By Wide Body Aircraft, 2025-2034 (USD Billion)
Table 11: Europe Avionics Systems Market, By Business Jet, 2025-2034 (USD Billion)
Table 12: Europe Avionics Systems Market, By Freighter Aircraft, 2025-2034 (USD Billion)
Table 13: Europe Avionics Systems Market, By Fit, 2025-2034 (USD Billion)
Table 14: Europe Avionics Systems Market, By Retrofit, 2025-2034 (USD Billion)
Table 15: Europe Avionics Systems Market, By Forward Fit, 2025-2034 (USD Billion)
Table 16: Germany Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)
Table 17: Germany Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)
Table 18: Germany Avionics Systems Market, By Fit, 2025-2034 (USD Billion)
Table 19: U.K. Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)
Table 20: U.K. Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)
Table 21: U.K. Avionics Systems Market, By Fit, 2025-2034 (USD Billion)
Table 22: France Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)
Table 23: France Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)
Table 24: France Avionics Systems Market, By Fit, 2025-2034 (USD Billion)
Table 25: Italy Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)
Table 26: Italy Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)

Table 27: Italy Avionics Systems Market, By Fit, 2025-2034 (USD Billion)

Table 28: Spain Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)

Table 29: Spain Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)

Table 30: Spain Avionics Systems Market, By Fit, 2025-2034 (USD Billion)

Table 31: Rest of Europe Avionics Systems Market, By Sub-System, 2025-2034 (USD Billion)

Table 32: Rest of Europe Avionics Systems Market, By Aircraft Type, 2025-2034 (USD Billion)

Table 33: Rest of Europe Avionics Systems Market, By Fit, 2025-2034 (USD Billion)

Table 34: Europe Avionics Systems Market, Competitive Landscape, 2025-2034

Table 35: Europe Avionics Systems Market, Mergers & Acquisitions, 2025-2034

Table 36: Europe Avionics Systems Market, Technological Advancements, 2025-2034

Table 37: Europe Avionics Systems Market, Future Trends & Opportunities, 2025-2034

Table 38: Europe Avionics Systems Market, Key Insights & Recommendations, 2025-2034

List Of Figures

LIST OF FIGURES

Figure 1: Europe Commercial Avionics Systems Market: Market Segmentation

Figure 2: Europe Commercial Avionics Systems Market: Research Methodology

Figure 3: Top-Down Approach

Figure 4: Bottom-Up Approach

Figure 5: Data Triangulation and Validation

Figure 6: Europe Commercial Avionics Systems Market: Drivers, Restraints, Opportunities, and Challenges

Figure 7: Europe Commercial Avionics Systems Market: Porter's Five Forces Model Analysis

Figure 8: Europe Commercial Avionics Systems Market: Value Chain Analysis

Figure 9: Europe Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 10: Europe Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 11: Europe Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 12: Europe Commercial Avionics Systems Market Share Analysis, By Country, 2025-2034

Figure 13: Germany Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 14: Germany Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 15: Germany Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 16: UK Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 17: UK Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 18: UK Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 19: France Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 20: France Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 21: France Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 22: Italy Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 23: Italy Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 24: Italy Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 25: Spain Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 26: Spain Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 27: Spain Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 28: Rest of Europe Commercial Avionics Systems Market Share Analysis, By Sub-System, 2025-2034

Figure 29: Rest of Europe Commercial Avionics Systems Market Share Analysis, By Aircraft Type, 2025-2034

Figure 30: Rest of Europe Commercial Avionics Systems Market Share Analysis, By Fit, 2025-2034

Figure 31: Europe Commercial Avionics Systems Market: Competitive Benchmarking

Figure 32: Europe Commercial Avionics Systems Market: Vendor Share Analysis, 2025-2034

Figure 33: Europe Commercial Avionics Systems Market: Key Player Strategies

Figure 34: Europe Commercial Avionics Systems Market: Recent Developments and Innovations

Figure 35: Europe Commercial Avionics Systems Market: Mergers and Acquisitions

Figure 36: Europe Commercial Avionics Systems Market: SWOT Analysis of Key Players

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