

Commercial Aircraft Avionics Systems Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Commercial Aviation & Avionics (Aerospace & Defense)
> ****Source:**** <https://www.mordorintelligence.com/industry-reports/commercial-aircraft-avionic-systems-market>
> ****Scraped Date:**** 2026-09-17

Executive Market Summary

Market Metric	Details
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Base Market Size	USD 42.70 billion
Projected Forecast (2031)	USD 42.70 billion
Growth Rate (CAGR)	5.52 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

![Major players in Commercial Aircraft Avionics Systems industry](images/chart_2.png)

![Commercial Aircraft Avionics Systems Market Size](images/chart_3.png)

![Commercial Aircraft Avionics Systems Market Share by Fit, 2025](images/chart_4.png)

![Commercial Aircraft Avionics Systems Market Share by Subsystem, 2025](images/chart_5.png)

![Commercial Aircraft Avionics Systems Market Growth Rate by Region](images/chart_6.png)

![Commercial Aircraft Avionics Systems Market Concentration](images/chart_7.png)

![Icon](images/chart_8.png)

![footer background image](images/chart_10.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview	Study Period 2019 - 2031
Market Size (2026)	USD 42.70 Billion
Market Size (2031)	USD 55.87 Billion
Growth Rate (2026 - 2031)	5.52 %
Fastest Growing Market	Asia Pacific
Largest Market	Asia Pacific

Market Concentration | Medium |

Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Commercial Aircraft Avionics Systems Market Analysis by Mordor IntelligenceThe commercial aircraft avionics systems market size is expected to grow from USD 40.47 billion in 2025 to USD 42.70 billion in 2026. It is forecast to reach USD 55.87 billion by 2031, with a 5.52% CAGR over 2026-2031. Tighter equipage rules are already pulling forward cockpit upgrades, with the United States mandating ADS-B In by December 2031 for aircraft currently fitted with ADS-B Out and Europe requiring Performance-Based Navigation that limits ILS Category I use to contingencies after June 2030. Narrow body fleet expansion continues to anchor line-fit demand, reinforcing OEM integration pathways as airlines seek fuel and reliability improvements from advanced flight management systems. Predictive maintenance is another tailwind as Boeing's Airplane Health Management 2.0 scales across large fleets and shifts maintenance toward sensor-driven intervals. Together, these factors keep the commercial aircraft avionics systems market focused on safety, compliance, and operational efficiency gains that improve dispatch reliability and reduce downtime.

Key Report Takeaways* By fit, line fit led with 89.94% revenue share of the commercial aircraft avionics systems market in 2025, while it is forecast to expand at a 6.04% CAGR through 2031.

* By aircraft type, narrow body jets led the commercial aircraft avionics systems market with a 67.83% revenue share in 2025 and are projected to grow at a 6.78% CAGR through 2031.

* By subsystem, flight management and control systems captured a 32.21% share in 2025, while visualization and display systems are forecast to expand at a 7.65% CAGR to 2031.

* By geography, Asia-Pacific held a 29.96% share of the commercial aircraft avionics systems market in 2025, and it is projected to record the fastest growth at an 8.11% CAGR through 2031.

Key Market Trends

Market Trends and InsightsDrivers Impact Analysis of Commercial Aircraft Avionics Systems Market*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |

Fleet expansion and single-aisle dominance | + 1.8% | Global, concentrated in Asia-Pacific and North America | Medium term (2-4 years) |

Mandated CNS/ATM equipage and surveillance (ADS-B, PBN, CPDLC) | + 1.5% | Global, with early gains in United States and European airspace | Short term (≤ 2 years) |

Predictive maintenance and aircraft health monitoring adoption | + 0.9% | North America and Europe, with spill-over to Asia-Pacific | Medium term (2-4 years) |

Cybersecurity regulations (EASA Part-IS; DO-326A/ED-202A) driving upgrades | + 0.6% | Europe and North America, with EASA Part-IS influence spreading to Middle East & Africa | Short term (≤ 2 years) |

Connected aircraft and cockpit digitalization | + 0.7% | Global, led by North America with rapid growth in Asia-Pacific | Medium term (2-4 years) |

Fuel and emissions cost pressure accelerating FMS optimization | + 0.5% | Global, with regulatory intensity in Europe and expanding programs in North America and Asia-Pacific | Medium term (2-4 years) |

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The commercial aircraft avionics systems market is driven by tier-1 suppliers specializing in flight-deck suites, communications, navigation, surveillance, and digital services. These firms leverage certification expertise, OEM integration programs, and support models aligned with airline maintenance goals. Their roadmaps focus on regulatory compliance, fuel and emissions optimization, and cybersecurity capabilities integrated with certification frameworks. As airlines adopt predictive maintenance and cockpit digitalization, integrated offerings combining FMS, displays, and data services are differentiating in both line-fit and retrofit channels. This market emphasizes lifecycle value, with program wins tied to multi-year support and upgrade paths.

Recent strategic moves underscore investments in autonomy, services, and next-generation avionics. Honeywell secured a multi-year IARPA award for a real-time speech anonymization solution to reduce language barriers for pilots, controllers, and autonomous systems. RTX's Collins Aerospace and the Royal Netherlands Air and Space Force established a long-term avionics service center targeting 2026. Lockheed Martin partnered with Joby Aviation to explore a hybrid VTOL platform for defense missions, advancing autonomy and mission systems integration. Safran expanded by acquiring Collins Aerospace's flight control and actuation activities and launched the OSYRYS Clean Aviation project for next-generation regional aircraft energy management. These initiatives align R&D and industrial footprints with autonomy, electrification, and services growth.

Commercial Aircraft Avionics Systems Industry Leaders* Honeywell International Inc.

* General Electric Company

* Safran

* Thales Group

* RTX Corporation

* *Disclaimer: Major Players sorted in no particular order

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Component Component 3 Scope Of The Report Bottom

Global Commercial Aircraft Avionics Systems Market Report Scope Avionics is an assembly of electronics subsystems integrated onboard an aircraft to carry out several mission and flight management tasks. These systems include engine controls, flight control systems, navigation, communications, flight recorders, lighting systems, fuel systems, electro-optic (EO/IR) systems, weather radar, and performance monitoring systems. The scope of the study excludes freighter aircraft, military aircraft, business jets, and other privately owned, chartered, and unscheduled aircraft.

The commercial aircraft avionics systems market is segmented by subsystem, aircraft type, fit, and geography. By subsystem, the market is segmented into health monitoring systems, flight management and control systems, communication and navigation, cockpit systems, visualizations and display systems, and other subsystems. The different subsystems include emergency systems, fire safety systems, electronic flight bags (EFBs), and weather systems. By aircraft type, the market is segmented into narrow body, wide body, and regional jet. By fit, the market is segmented into line fit and retrofit. The report also covers the market sizes and forecasts for the commercial aircraft avionics systems market in major countries across different regions. For each segment, the market size is provided in terms of value (USD).

By FitLine Fit |
Retro Fit |

Segmentation Accordion Item

By GeographyNorth America | United States |
| Canada |
| Mexico |
Europe | United Kingdom |
| France |
| Germany |
| Italy |
| Spain |
| Russia |
| Rest of Europe |
Asia-Pacific | China |
| India |
| Japan |
| South Korea |
| Australia |
| Rest of Asia-Pacific |
South America | Brazil |
| Argentina |
| Rest of South America |
| |
Middle East and Africa | Middle East | Saudi Arabia |
	United Arab Emirates
	Qatar
	Rest of Middle East
Africa	South Africa
	Egypt
	Rest of Africa

Frequently Asked Questions

What is the size of the Commercial Aircraft Avionics Systems market in 2026 and how fast is it growing?

The Commercial Aircraft Avionics Systems market size stands at USD 42.70 billion in 2026 and is projected to reach USD 55.87 billion by 2031 at a 5.52% CAGR.

Which segments lead growth within the Commercial Aircraft Avionics Systems market through 2031?

Narrow body aircraft lead volumes with a 67.83% 2025 share and a 6.78% CAGR, while visualization and display systems are the fastest-growing subsystem at 7.65% CAGR.

How do regulations influence investment in the Commercial Aircraft Avionics Systems market?

US ADS-B In by December 2031 and Europe's PBN deadlines after June 2030 compress retrofit windows and direct spend toward surveillance, navigation, and data-link upgrades.

Which region is growing fastest in the Commercial Aircraft Avionics Systems market?

Asia-Pacific leads growth with an 8.11% CAGR forecast, supported by large multi-decade aircraft deliveries and modernization programs.

What role does predictive maintenance play in the Commercial Aircraft Avionics Systems market?

Predictive maintenance platforms like Boeing AHM 2.0 enable condition-based intervals and have delivered documented dispatch and cost gains, which strengthens adoption and lifecycle value.

How are suppliers positioning in the Commercial Aircraft Avionics Systems market?

Leading vendors pursue autonomy, services, and compliance-aligned upgrades, highlighted by investments in AI-enabled avionics, depot services, and cybersecurity-ready architectures.