

Global Next Generation Avionics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Next Generation Avionics market size is expected to reach \$ 6607 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Next generation avionics refers to a new generation of avionics systems that reconstruct and upgrade traditional avionics systems based on open architecture, high-speed data buses, artificial intelligence, cloud computing, and advanced sensing technologies. Its core characteristics include: high integration (integrating flight management, navigation, communication, surveillance, and health management functions into a unified platform); intelligence (utilizing AI to assist flight decision-making, predictive maintenance, and autonomous flight control); high reliability (adopting a distributed fault-tolerant architecture and multi-source sensor fusion to enhance system resilience); and interconnectivity (achieving real-time data sharing between aircraft, ground operations centers, and air traffic control through air-to-ground broadband links). Key supporting technologies include ARINC 664/AFDX (Aeronautical Full-Duplex Switched Ethernet), MOSA (Modular Open System Architecture), and digital twins. This technology aims to address increasingly complex airspace environments, improve flight safety and operational efficiency, while reducing pilot workload, and is a fundamental enabling technology for future unmanned, electric aircraft, and urban air traffic operations.

The global development of Next Generation Avionics is characterized by a pattern of US and European dominance, with the Asia-Pacific region catching up. The US, relying on the FAA, NASA, and companies like Collins Aerospace, Honeywell, and GE, leads the development of open architectures (MOSA) and AI avionics standards. Europe, with Thales and Airbus at its core, focuses on safety-critical systems and unmanned traffic management (UTM). China is accelerating the localization of Integrated Modular Avionics (IMA) in the C919 and ARJ21 projects, but its airworthiness verification

toolchain still lags behind. Japan possesses unique advantages in airborne vision and SiC power devices. Current Market Status: Commercial aviation and Advanced Air Mobility (AAM) are the main driving forces. Future Trends: Evolution towards software-defined avionics, edge computing, quantum navigation, and digital twin verification. Major Obstacles: High R&D costs, high costs of retrofitting older aircraft, difficulties in cross-platform standard interoperability, escalating cybersecurity risks, and long airworthiness certification cycles (typically 5-8 years). In terms of developments: the FAA released new regulations on avionics cybersecurity; Airbus and Thales are collaborating on the development of the 'Cockpit 3.0' AI-assisted system; and COMAC is advancing 5G air-to-ground broadband avionics testing.

This report studies the global Next Generation Avionics demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Next Generation Avionics, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Next Generation Avionics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Next Generation Avionics total market, 2021-2032, (USD Million)

Global Next Generation Avionics total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Next Generation Avionics total market, key domestic companies, and share, (USD Million)

Global Next Generation Avionics revenue by player, revenue and market share 2021-2026, (USD Million)

Global Next Generation Avionics total market by Type, CAGR, 2021-2032, (USD Million)

Global Next Generation Avionics total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Next Generation Avionics market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Collins Aerospace, Thales, GE Aviation, L3Harris Technologies, Curtiss-Wright, Safran, Cobham, Scioteq, Garmin, Honeywell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Next Generation Avionics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Next Generation Avionics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Next Generation Avionics Market, Segmentation by Type:

Management System Electronics

Communication System Electronics

Navigation System Electronics

Other Electronics

Global Next Generation Avionics Market, Segmentation by Deployment:

Integrated Modular Avionics (IMA)

Distributed IMA

Global Next Generation Avionics Market, Segmentation by Communication Data Rate:

Low-Speed Data Bus (1 Gbps)

Global Next Generation Avionics Market, Segmentation by Application:

Civil Aircraft

Military Aircraft

Companies Profiled:

Collins Aerospace

Thales

GE Aviation

L3Harris Technologies

Curtiss-Wright

Safran

Cobham

Scioteq

Garmin

Honeywell

Airbus

Astronautics

TransDigm

Diehl Aerospace

Japan Aerospace Exploration Agency (JAXA)

Mitsubishi Electric

COMAC

AECC

Key Questions Answered

1. How big is the global Next Generation Avionics market?
2. What is the demand of the global Next Generation Avionics market?
3. What is the year over year growth of the global Next Generation Avionics market?
4. What is the total value of the global Next Generation Avionics market?
5. Who are the Major Players in the global Next Generation Avionics market?
6. What are the growth factors driving the market demand?

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