

5G in Aviation Market by Communication Infrastructure (Small Cell, Distributed Antenna System (DAS), Radio Access Network (RAN)), Technology (Enhanced Mobile Broadband Segment (EMBB), Massive Machine Type Communication (MMTC), Ultra-Reliable Low-Latency Communication (URLLC), Fixed Wireless Access (FWA)), Connectivity Type (Groundto-Ground Communication, Air-to-Ground Communication), End Use (Airport, Aircraft), and Region 2023-2028

https://marketpublishers.com/r/5D5E48A098C7EN.html

Date: March 2023 Pages: 145 Price: US\$ 2,499.00 (Single User License) ID: 5D5E48A098C7EN

Abstracts

Market Overview:

The global 5G in aviation market size reached US\$ 0.72 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.23 Billion by 2028, exhibiting a growth rate (CAGR) of 47.12% during 2023-2028. The burgeoning aviation industry, rising demand for better in-flight connectivity, and the growing utilization of 5G in aviation to deliver core wireless transmission represent some of the key factors driving the market.

5G in aviation refers to the utilization of a 5th generation network for performing effective operations in the aviation industry. It is transforming the industry in various areas, such as manufacturing, airports, airlines, and the passenger experience. It provides an enhanced understanding of manufacturing processes by enabling digital twins for aircraft blisks. It assists in performing advanced analytics and simulations to



identify and correct faults in aircraft. 5G in aviation also aids in improving airport security by facilitating network-connected 8K cameras and augmented reality (AR) glasses. Besides this, it helps automated guided vehicles (AGVs) perform complete disinfection based on real space occupancy or allows airports to manage automatic fever detection via real-time thermal imaging. It consequently finds applications in real-time equipment monitoring to improve predictive maintenance with video analytics for examining aircraft turnaround processes.

5G in Aviation Market Trends:

At present, the rising utilization of 5G in aviation to deliver core wireless transmission for seamless connection between the ground control room and flight crew for a safe and user-friendly experience represents one of the key factors supporting the growth of the market. In addition, there is a rise in the demand for 5G in aviation among medium and small-sized airports to provide optimized solutions for minimizing downtime and reducing intervention in ground support equipment. This, along with the thriving aviation industry across the globe, is strengthening the growth of the market. Besides this, the growing demand for 5G in aviation to enhance connectivity for contactless solutions for preflight, in-flight, and post-flight operations is positively influencing the market. Moreover, there is an increase in the demand for better in-flight connectivity for video streaming, online interactions, and instant updates on flight schedules across the globe. This, coupled with technological advancements in the telecommunications industry to enable multi-device access over high-speed networks, is propelling the growth of the market. Apart from this, the rising demand for real-time schedules on flight availability and flexible fare schemes is offering lucrative growth opportunities to industry investors. Additionally, key players are introducing 5G-connected artificial intelligence (AI) that helps passengers find their bags easily as AI will be able to recognize unique scuff marks, creases, and material characteristics to distinguish between identical bags and match them to the correct passenger.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global 5G in aviation market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on communication infrastructure, technology, connectivity type, and end-use.

Communication Infrastructure Insights:



Small Cell Distributed Antenna System (DAS) Radio Access Network (RAN)

The report has provided a detailed breakup and analysis of the 5G in aviation market based on the communication infrastructure. This includes small cell, distributed antenna system (DAS), and radio access network (RAN). According to the report, small cell represented the largest segment.

Technology Insights:

Enhanced Mobile Broadband Segment (EMBB) Massive Machine Type Communication (MMTC) Ultra-Reliable Low-Latency Communication (URLLC) Fixed Wireless Access (FWA)

A detailed breakup and analysis of the 5G in aviation market based on technology has also been provided in the report. This includes enhanced mobile broadband segment (EMBB), massive machine type communication (MMTC), ultra-reliable low-latency communication (URLLC), and fixed wireless access (FWA). According to the report, Enhanced Mobile Broadband Segment (EMBB) accounted for the largest market share.

Connectivity Type Insights:

Ground-to-Ground Communication Air-to-Ground Communication

A detailed breakup and analysis of the 5G in aviation market based on connectivity type has also been provided in the report. This includes ground-to-ground communication and air-to-ground communication. According to the report, ground-to-ground communication accounted for the largest market share.

End Use Insights:

Airport Aircraft

5G in Aviation Market by Communication Infrastructure (Small Cell, Distributed Antenna System (DAS), Radio Acc...



A detailed breakup and analysis of the 5G in aviation market based on end use has also been provided in the report. This includes airport and aircraft. According to the report, aircraft accounted for the largest market share.

Regional Insights:

North America

United States Canada

Asia Pacific

China Japan India South Korea Australia Indonesia Others

Europe

Germany France United Kingdom Italy Spain Russia Others

Latin America

Brazil Mexico Others



Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for 5G in aviation. Some of the factors driving the North America 5G in aviation market included the thriving aviation industry, rising demand for better in-flight connectivity, integration of AI, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global 5G in aviation market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies include Cisco Systems, Inc., Gogo Inc., Honeywell International Inc., Huawei Technologies Co. Ltd., Intelsat Corporation, Nokia Corporation, Telefonaktiebolaget LM Ericsson, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global 5G in aviation market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global 5G in aviation market? What are the key regional markets?

Which countries represent the most attractive 5G in aviation markets?

What is the breakup of the market based on the communication infrastructure?

Which is the most attractive communication infrastructure in the 5G in aviation market? What is the breakup of the market based on technology?

Which is the most attractive technology in the 5G in aviation market?

What is the breakup of the market based on the connectivity type?

Which is the most attractive connectivity type in the 5G in aviation market?

What is the breakup of the market based on the end-use?

Which is the most attractive end use in the 5G in aviation market?

What is the competitive structure of the global 5G in aviation market?



Who are the key players/companies in the global 5G in aviation market?



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