

## **Global 5G in Aviation Market Report and Forecast 2023-2028**

Market Report | 2023-10-12 | 176 pages | EMR Inc.

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### **Report description:**

Global 5G in Aviation Market Report and Forecast 2023-2028

Market Outlook

According to the report by Expert Market Research (EMR), the global 5G in aviation market reached a value of USD 0.61 billion in 2022. Aided by growing adoption of 5G connected artificial intelligence and growing need for providing better flight experience to the passengers, the market is projected to further grow at a CAGR of 39.10% between 2023 and 2028 to reach a value of USD 4.47 billion by 2028.

5G, the fifth generation of mobile networks, is more than just an evolutionary step from its predecessor, 4G. It promises lightning-fast data download and upload speeds, wider coverage, and more stable connections. In the realm of aviation, 5G plays a crucial role in transforming both in-flight and on-ground experiences. From augmented reality (AR) experiences for passengers to real-time data analytics for aircraft maintenance and operations, 5G stands at the forefront of revolutionizing the aviation industry.

One of the main driving forces behind 5G in aviation market growth is the increasing demand for superior in-flight entertainment and connectivity (IFEC) solutions. Modern passengers, accustomed to uninterrupted high-speed internet on the ground, expect similar connectivity in the air. This demand for high-bandwidth, low-latency communication aligns perfectly with the capabilities of 5G, making it the technology of choice for future-proofing in-flight connectivity solutions.

Furthermore, the rising importance of real-time data in flight operations and safety cannot be understated. With 5G, aircraft can transmit vast volumes of data in real-time to ground stations which further boosts global 5G in aviation market demand. This data can then be analysed promptly, enabling predictive maintenance, which significantly reduces operational disruptions and ensures higher safety standards.

The potential applications of 5G extend beyond passenger experience and flight operations. On the ground, airports are bustling hubs of activities that require seamless communication. From baggage handling systems, security protocols, to air traffic control, every aspect can benefit from the ultra-reliable low-latency communication (URLLC) offered by 5G technology.

But the application that bolsters 5G in aviation market size is the integration of 5G with the Internet of Things (IoT). When combined, 5G and IoT can facilitate smart airports where everything, from check-in kiosks to boarding gates, is interconnected, streamlined, and automated, resulting in enhanced passenger experiences and efficient airport operations.

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As per the 5G in aviation market analysis, the global market is on the brink of a significant transformation. While 5G offers improved connectivity, it also necessitates enhanced cybersecurity measures. The interconnected nature of 5G systems can potentially expose vulnerabilities, and ensuring the security of these networks becomes paramount, especially in an industry where safety is of the utmost importance.

#### Market Segmentation

The market can be divided based on communication infrastructure, technology, connectivity type, end use, and region.

##### Market Breakup by Communication Infrastructure

- Small Cell
- Distributed Antenna System (DAS)

- Radio Access Network (RAN)

##### Market Breakup by Technology

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

##### Market Breakup by Connectivity Type

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

##### Market Breakup by End Use

- Airport
- Aircraft

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in the global 5G in aviation market. Some of the major players explored in the report by Expert Market Research are as follows:

- Huawei Technologies Co., Ltd
- Nokia Corporation
- OneWeb
- Qualcomm Technologies, Inc.
- Cisco Systems, Inc.
- Gogo Business Aviation LLC
- Honeywell International Inc.
- Telefonaktiebolaget LM Ericsson
- Anuvu Operations LLC
- Others

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