

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

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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?



Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
- 2.3.1 Primary Sources
- 2.3.2 Secondary Sources
- 2.4 Market Estimation
- 2.4.1 Bottom-Up Approach
- 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL 5G IN AVIATION MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY COMMUNICATION INFRASTRUCTURE

6.1 Small Cell
6.1.1 Market Trends
6.1.2 Market Forecast
6.2 Distributed Antenna System (DAS)
6.2.1 Market Trends
6.2.2 Market Forecast
6.3 Radio Access Network (RAN)



- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY TECHNOLOGY

- 7.1 Enhanced Mobile Broadband Segment (EMBB)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Massive Machine Type Communication (MMTC)
- 7.2.1 Market Trends
- 7.2.2 Market Forecast
- 7.3 Ultra-Reliable Low-Latency Communication (URLLC)
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Fixed Wireless Access (FWA)
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY CONNECTIVITY TYPE

- 8.1 Ground-to-Ground Communication
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Air-to-Ground Communication
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY END USE

- 9.1 Airport
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Aircraft
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

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



10.1.1 United States 10.1.1.1 Market Trends 10.1.1.2 Market Forecast 10.1.2 Canada 10.1.2.1 Market Trends 10.1.2.2 Market Forecast 10.2 Asia-Pacific 10.2.1 China 10.2.1.1 Market Trends 10.2.1.2 Market Forecast 10.2.2 Japan 10.2.2.1 Market Trends 10.2.2.2 Market Forecast 10.2.3 India 10.2.3.1 Market Trends 10.2.3.2 Market Forecast 10.2.4 South Korea 10.2.4.1 Market Trends 10.2.4.2 Market Forecast 10.2.5 Australia 10.2.5.1 Market Trends 10.2.5.2 Market Forecast 10.2.6 Indonesia 10.2.6.1 Market Trends 10.2.6.2 Market Forecast 10.2.7 Others 10.2.7.1 Market Trends 10.2.7.2 Market Forecast 10.3 Europe 10.3.1 Germany 10.3.1.1 Market Trends 10.3.1.2 Market Forecast 10.3.2 France 10.3.2.1 Market Trends 10.3.2.2 Market Forecast 10.3.3 United Kingdom 10.3.3.1 Market Trends 10.3.3.2 Market Forecast

10.3.4 Italy



10.3.4.1 Market Trends 10.3.4.2 Market Forecast 10.3.5 Spain 10.3.5.1 Market Trends 10.3.5.2 Market Forecast 10.3.6 Russia 10.3.6.1 Market Trends 10.3.6.2 Market Forecast 10.3.7 Others 10.3.7.1 Market Trends 10.3.7.2 Market Forecast 10.4 Latin America 10.4.1 Brazil 10.4.1.1 Market Trends 10.4.1.2 Market Forecast 10.4.2 Mexico 10.4.2.1 Market Trends 10.4.2.2 Market Forecast 10.4.3 Others 10.4.3.1 Market Trends 10.4.3.2 Market Forecast 10.5 Middle East and Africa 10.5.1 Market Trends 10.5.2 Market Breakup by Country 10.5.3 Market Forecast

11 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

- 11.1 Overview
- 11.2 Drivers
- 11.3 Restraints
- 11.4 Opportunities

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers



- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

15.1 Market Structure 15.2 Key Players 15.3 Profiles of Key Players 15.3.1 Cisco Systems, Inc. 15.3.1.1 Company Overview 15.3.1.2 Product Portfolio 15.3.1.3 Financials 15.3.1.4 SWOT Analysis 15.3.2 Gogo Inc. 15.3.2.1 Company Overview 15.3.2.2 Product Portfolio 15.3.2.3 Financials 15.3.3 Honeywell International Inc 15.3.3.1 Company Overview 15.3.3.2 Product Portfolio 15.3.3.3 Financials 15.3.3.4 SWOT Analysis 15.3.4 Huawei Technologies Co. Ltd. 15.3.4.1 Company Overview 15.3.4.2 Product Portfolio 15.3.4.3 SWOT Analysis 15.3.5 Intelsat Corporation 15.3.5.1 Company Overview 15.3.5.2 Product Portfolio 15.3.6 Nokia Corporation 15.3.6.1 Company Overview 15.3.6.2 Product Portfolio 15.3.6.3 Financials 15.3.6.4 SWOT Analysis 15.3.7 Telefonaktiebolaget LM Ericsson



15.3.7.1 Company Overview

15.3.7.2 Product Portfolio

15.3.7.3 Financials

15.3.7.4 SWOT AnalysisKindly, note that this only represents a partial list of companies, and the complete list has been provided in the report.



List Of Tables

LIST OF TABLES

Table 1: Global: 5G in Aviation Market: Key Industry Highlights, 2022 & 2028
Table 2: Global: 5G in Aviation Market Forecast: Breakup by Communication
Infrastructure (in Million US\$), 2023-2028
Table 3: Global: 5G in Aviation Market Forecast: Breakup by Technology (in Million US\$), 2023-2028
Table 4: Global: 5G in Aviation Market Forecast: Breakup by Connectivity Type (in Million US\$), 2023-2028
Table 5: Global: 5G in Aviation Market Forecast: Breakup by End Use (in Million US\$), 2023-2028
Table 6: Global: 5G in Aviation Market Forecast: Breakup by Region (in Million US\$), 2023-2028
Table 7: Global: 5G in Aviation Market: Competitive Structure

Table 8: Global: 5G in Aviation Market: Key Players



List Of Figures

LIST OF FIGURES

Figure 1: Global: 5G in Aviation Market: Major Drivers and Challenges Figure 2: Global: 5G in Aviation Market: Sales Value (in Billion US\$), 2017-2022 Figure 3: Global: 5G in Aviation Market Forecast: Sales Value (in Billion US\$), 2023-2028 Figure 4: Global: 5G in Aviation Market: Breakup by Communication Infrastructure (in %), 2022 Figure 5: Global: 5G in Aviation Market: Breakup by Technology (in %), 2022 Figure 6: Global: 5G in Aviation Market: Breakup by Connectivity Type (in %), 2022 Figure 7: Global: 5G in Aviation Market: Breakup by End Use (in %), 2022 Figure 8: Global: 5G in Aviation Market: Breakup by Region (in %), 2022 Figure 9: Global: 5G in Aviation (Small Cell) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 10: Global: 5G in Aviation (Small Cell) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 11: Global: 5G in Aviation (Distributed Antenna System (DAS)) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 12: Global: 5G in Aviation (Distributed Antenna System (DAS)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 13: Global: 5G in Aviation (Radio Access Network (RAN)) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 14: Global: 5G in Aviation (Radio Access Network (RAN)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 15: Global: 5G in Aviation (Enhanced Mobile Broadband Segment (EMBB)) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 16: Global: 5G in Aviation (Enhanced Mobile Broadband Segment (EMBB)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 17: Global: 5G in Aviation (Massive Machine Type Communication (MMTC)) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 18: Global: 5G in Aviation (Massive Machine Type Communication (MMTC)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 19: Global: 5G in Aviation (Ultra-Reliable Low-Latency Communication (URLLC)) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 20: Global: 5G in Aviation (Ultra-Reliable Low-Latency Communication (URLLC)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 21: Global: 5G in Aviation (Fixed Wireless Access (FWA)) Market: Sales Value



(in Million US\$), 2017 & 2022 Figure 22: Global: 5G in Aviation (Fixed Wireless Access (FWA)) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 23: Global: 5G in Aviation (Ground-to-Ground Communication) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 24: Global: 5G in Aviation (Ground-to-Ground Communication) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 25: Global: 5G in Aviation (Air-to-Ground Communication) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 26: Global: 5G in Aviation (Air-to-Ground Communication) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 27: Global: 5G in Aviation (Airport) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 28: Global: 5G in Aviation (Airport) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 29: Global: 5G in Aviation (Aircraft) Market: Sales Value (in Million US\$), 2017 & 2022 Figure 30: Global: 5G in Aviation (Aircraft) Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 31: North America: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 32: North America: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 33: United States: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 34: United States: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 35: Canada: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 36: Canada: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 37: Asia-Pacific: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 38: Asia-Pacific: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 39: China: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 40: China: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028 Figure 41: Japan: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 42: Japan: 5G in Aviation Market Forecast: Sales Value (in Million US\$),



2023-2028

Figure 43: India: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 44: India: 5G in Aviation Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 45: South Korea: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: South Korea: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: Australia: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 48: Australia: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: Indonesia: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 50: Indonesia: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Others: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 52: Others: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Europe: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 54: Europe: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Germany: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 56: Germany: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: France: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 58: France: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: United Kingdom: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: United Kingdom: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: Italy: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 62: Italy: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: Spain: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 64: Spain: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Russia: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 66: Russia: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028



Figure 67: Others: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 68: Others: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Latin America: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Latin America: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Brazil: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 72: Brazil: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Mexico: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 74: Mexico: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Others: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022 Figure 76: Others: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Middle East and Africa: 5G in Aviation Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Middle East and Africa: 5G in Aviation Market: Breakup by Country (in %), 2022

Figure 79: Middle East and Africa: 5G in Aviation Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Global: 5G in Aviation Industry: Drivers, Restraints, and Opportunities

Figure 81: Global: 5G in Aviation Industry: Value Chain Analysis

Figure 82: Global: 5G in Aviation Industry: Porter's Five Forces Analysis



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