

Connected Aircraft Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Connectivity (Air-to-Air Connectivity, Air-to-Ground Connectivity, Inflight Connectivity), By Application (Commercial & Military), Based on Frequency (Ka Band, Ku Band, L-band), By Region, Competition, Forecast and Opportunities, 2028

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Abstracts

Connected aircraft market is predicted to grow in coming years due to technological advancement across the world.

Connected Aircraft Market Overview

Aviation has been introduced to the industrial Internet of Things (IoT) by the connected aircraft. Connected aircraft is a set of solutions created to revolutionize modern flying, significantly enhancing fleet management, flight safety, passenger experience, aircraft maintenance, flight operations, aircraft turnaround time, and costs. It does this by utilizing new technology and much more dependable high-speed Wi-Fi connections. With the help of the connected solutions, an airplane's parts and equipment can instantly send, receive, and analyses data, allowing for better decision-making, lower operational costs, and a better flying experience.

Connected Aircraft Market Drivers

There is a great need for more dependable systems to replace outdated data optimization and data connection systems due to the rise in operational efficiency requirements. Wireless electronic flight bags and aircraft interface devices are now

standard equipment. Numerous applications are driving up demand for high-speed internet connectivity. Additionally, major corporations are implementing SATCOM and broadband as solutions, necessitating alternative speeded transmission modules, and fueling market expansion. Over the past few years, there has been a sharp rise in the demand for technologically advanced commercial aircraft. The production of innovative and advanced aircraft is currently the focus of major players in developed nations. Efficiency in the international aviation sector is increased by modernizing the infrastructure for air traffic management. They link numerous aircraft within their airspace. To manage traffic more effectively and cut down on flight delays, air navigation services are part of the infrastructure for air traffic management. As a matter of fact, 86% of service providers are concentrating on important IT aircraft maintenance programmes and passenger mobile apps for in-depth analysis.

Connected Aircraft Market Challenges

The aviation sector can be gravely threatened by cyberattacks. Rising data theft and significant flight cancellations, may cause several flight delays. The cyberattack threat might be dire if a terrorist is able to disrupt the system. Artificial intelligence, connected technologies, and the Internet of Things (IoT) have all found a home in the aviation industry. Although these technologies have benefited the sector in many ways, they have also made it more susceptible to cyber threats. Applications like air traffic control, airport systems and infrastructure, aircraft operators and management operations, aircraft maintenance, access, departures, internet-enabled ground, and on-board connectivity systems are considered and managing all these functions with trajectory is hindering market growth in connected services. British Airways discussed IT-related problems in February 2022, which led to many cancellations and delays in flights. Carelessness and malware in software can also make minor internal software issues into serious ones. As a result, there might be significant delays in airline responsiveness, which might result in a sizable loss of connected aircraft market.

Connected Aircraft Market Trends

Technology advancements are having a significant impact on the way businesses relate to their customers, make decisions, and set up workflows. Ticketing, seat selection, luggage management, boarding, ground transportation, and other aspects of airline operations are all being revolutionized by data, from pre-flight to post-flight. Thus, as a passenger moves through the various phases of their journey, the information needed for numerous use cases is recorded. The ultimate advantages of big data analytics include quick responses to current and future market demands, improved planning and

strategically aligned decision making, and a clear understanding and monitoring of all key performance drivers important to the airline industry. The industry benefits from data analytics by having a better understanding of customer preferences and other maintenance issues. For instance, the industry can target customers with personalized offers and real-time price optimizing by using predictive analysis tools. Airlines can book more reservations in the allotted time by gathering useful data. Additionally, high costs are incurred by airlines because of flight delays and cancellations brought on by technical difficulties. The monitoring system for the aircraft uses predictive analytics to alert or notify the maintenance team of any current technical conditions that can help them identify problems and make repairs, reducing the amount of time the aircraft is not in usage.

PlaneSync technology offers an appealing alternative to the Flight Stream 510 by eliminating the time-consuming process of updating databases via PC and data card and automatically downloading databases to the aircraft via Wi-Fi or LTE. While the aircraft is off and the owner is away from the aircraft, downloads may take place. Once the aircraft is powered on, critical databases are automatically synchronized across compatible avionics. Pilots are then no longer required to manually update databases using data cards or plan their flights around database cycle update timing.

The need for improved operational efficiency is another driver of growth in the connected aircraft market. Airlines are under increasing pressure to reduce costs and improve their bottom line. Connected aircraft technology can help airlines achieve these goals by reducing fuel consumption, optimizing flight paths, and improving maintenance schedules. For example, connected aircraft technology can be used to optimize flight paths based on real-time weather data, reducing fuel consumption and emissions. It can also be used to monitor the performance of various systems within an aircraft, identifying areas where maintenance can be improved to reduce downtime and improve efficiency.

Market Segmentation

The connected aircraft market is segmented by connectivity, application, type, frequency band, company, and region. Based on connectivity, the market is segmented into Air-to-air connectivity, air-to-ground connectivity, and inflight connectivity. Based on application, the market is divided into commercial and military. Further, based on frequency band, the market is divided into Ka band, Ku band, and L- band. The market analysis also studies the region wise segmentation to devise connected car market, divided among Asia-Pacific, Europe & CIS, Americas, and rest of the world.

Company Insights

Delta Air Lines chose Viasat's next-generation Ka-band satellite in-flight connectivity (IFC) solution in January 2021 for more than 300 mainline narrow-body aircraft, which includes new deliveries and retrofits on A321ceo, 737-900ER, and select 757-200 aircraft. Beginning in the summer of 2021, Delta anticipates integrating Viasat technology onto these aircraft, with the potential to include additional fleets.

By incorporating the most recent technology into its product lineup, Piper Aircraft has frequently led the general aviation sector. Being the first manufacturer to certify Garmin's GNS 430 is one example, as is Garmin's Collier Award-winning Autoland technology, which was just released. Piper Aircraft is dedicated to upholding the position of leadership by integrating cutting-edge and safety-improving technologies across its fleet. Piper Aircraft announced several connected aircraft management features that will be made available in 2024 on the G3000-equipped M600/SLS.

Company Profiles

SITA, Gogo Inc., Honeywell International Inc., Panasonic Avionics Corporation, Thales Group, Global Eagle Entertainment Inc., Collins Aerospace (United Technologies Corporation), Inmarsat Global Limited, Cobham PLC, Kontron S&T AG, and ViaSat Inc. are some of the key players developing advanced technologies to stay competitive in the market and enhancing their product portfolio in the regions to increase their customer outreach.

Report Scope:

In this report, connected aircraft market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Connected Aircraft Market, By Connectivity:

Air-to-air Connectivity

Air-to-ground Connectivity

Inflight Connectivity

Connected Aircraft Market, By Application:

Commercial

Military

Connected Aircraft Market, By Frequency Band:

Ka-Band

Ku-Band

L-Band

Connected Aircraft Market, By Region:

APAC

China

India

Japan

South Korea

Australia

Americas

United States

Canada

Mexico

Brazil

Europe & CIS

Russia

Germany

France

United Kingdom

Italy

Spain

Rest of the World

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in connected aircraft market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

- 1. Introduction
 - 1.1. Product Overview
 - 1.2. Key Highlights of the Report
 - 1.3. Market Coverage
 - 1.4. Market Segments Covered
 - 1.5. Research Tenure Considered

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

4. GLOBAL CONNECTED AIRCRAFT MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Connectivity Market Share Analysis (Inflight Connectivity, Air-to-air Connectivity, Air-to-ground Connectivity)
 - 4.2.2. By Application Market Share Analysis (Commercial Aircraft, Military Aircraft)
 - 4.2.3. By Frequency Band Type Market Share Analysis (Ka-Band, Ku-Band, L-Band)
 - 4.2.4. By Regional Market Share Analysis
 - 4.2.4.1. APAC Market Share Analysis
 - 4.2.4.2. Americas Market Share Analysis
 - 4.2.4.3. Europe & CIS Market Share Analysis

- 4.2.4.4. Rest of the World Market Share Analysis
- 4.2.5. By Company Market Share Analysis (Top 5 Companies, Others – By Value, 2022)
- 4.3. Global Connected Aircraft Market Mapping & Opportunity Assessment
 - 4.3.1. By Connectivity Market Mapping & Opportunity Assessment
 - 4.3.2. By Application Market Mapping & Opportunity Assessment
 - 4.3.3. By Frequency Band Type Market Mapping & Opportunity Assessment
 - 4.3.4. By Regional Market Mapping & Opportunity Assessment

5. APAC CONNECTED AIRCRAFT MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Value
- 5.3. Market Share & Forecast
 - 5.3.1. By Connectivity Market Share Analysis
 - 5.3.2. By Application Market Share Analysis
 - 5.3.3. By Frequency Band Type Market Share Analysis
 - 5.3.4. By Country Market Share Analysis
 - 5.3.4.1. China Market Share Analysis
 - 5.3.4.2. India Market Share Analysis
 - 5.3.4.3. Japan Market Share Analysis
 - 5.3.4.4. South Korea Market Share Analysis
 - 5.3.4.5. Australia Market Share Analysis
 - 5.3.4.6. Rest of APAC Market Share Analysis
- 5.4. APAC: Country Analysis
 - 5.4.1. China Connected Aircraft Market Outlook
 - 5.4.1.1. Market Size & Forecast
 - 5.4.1.1.1. By Value
 - 5.4.1.2. Market Share & Forecast
 - 5.4.1.2.1. By Connectivity Market Share Analysis
 - 5.4.1.2.2. By Application Market Share Analysis
 - 5.4.1.2.3. By Frequency Band Type Market Share Analysis
 - 5.4.2. India Connected Aircraft Market Outlook
 - 5.4.2.1. Market Size & Forecast
 - 5.4.2.1.1. By Value
 - 5.4.2.2. Market Share & Forecast
 - 5.4.2.2.1. By Connectivity Market Share Analysis

- 5.4.2.2.2. By Application Market Share Analysis
- 5.4.2.2.3. By Frequency Band Type Market Share Analysis
- 5.4.3. Japan Connected Aircraft Market Outlook
 - 5.4.3.1. Market Size & Forecast
 - 5.4.3.1.1. By Value
 - 5.4.3.2. Market Share & Forecast
 - 5.4.3.2.1. By Connectivity Market Share Analysis
 - 5.4.3.2.2. By Application Market Share Analysis
 - 5.4.3.2.3. By Frequency Band Type Market Share Analysis
- 5.4.4. South Korea Connected Aircraft Market Outlook
 - 5.4.4.1. Market Size & Forecast
 - 5.4.4.1.1. By Value
 - 5.4.4.2. Market Share & Forecast
 - 5.4.4.2.1. By Connectivity Market Share Analysis
 - 5.4.4.2.2. By Application Market Share Analysis
 - 5.4.4.2.3. By Frequency Band Type Market Share Analysis
- 5.4.5. Australia Connected Aircraft Market Outlook
 - 5.4.5.1. Market Size & Forecast
 - 5.4.5.1.1. By Value
 - 5.4.5.2. Market Share & Forecast
 - 5.4.5.2.1. By Connectivity Market Share Analysis
 - 5.4.5.2.2. By Application Market Share Analysis
 - 5.4.5.2.3. By Frequency Band Type Market Share Analysis

6. AMERICAS CONNECTED AIRCRAFT MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
- 6.3. Market Share & Forecast
 - 6.3.1. By Connectivity Market Share Analysis
 - 6.3.2. By Application Market Share Analysis
 - 6.3.3. By Frequency Band Type Market Share Analysis
 - 6.3.4. By Country Market Share Analysis
 - 6.3.4.1. United States Market Share Analysis
 - 6.3.4.2. Canada Market Share Analysis
 - 6.3.4.3. Mexico Market Share Analysis
 - 6.3.4.4. Brazil Market Share Analysis
 - 6.3.4.5. Rest of The Americas Market Share Analysis

6.4. Americas: Country Analysis

6.4.1. United States Connected Aircraft Market Outlook

6.4.1.1. Market Size & Forecast

6.4.1.1.1. By Value

6.4.1.2. Market Share & Forecast

6.4.1.2.1. By Connectivity Market Share Analysis

6.4.1.2.2. By Application Market Share Analysis

6.4.1.2.3. By Frequency Band Type Market Share Analysis

6.4.2. Canada Connected Aircraft Market Outlook

6.4.2.1. Market Size & Forecast

6.4.2.1.1. By Value

6.4.2.2. Market Share & Forecast

6.4.2.2.1. By Connectivity Market Share Analysis

6.4.2.2.2. By Application Market Share Analysis

6.4.2.2.3. By Frequency Band Type Market Share Analysis

6.4.3. Mexico Connected Aircraft Market Outlook

6.4.3.1. Market Size & Forecast

6.4.3.1.1. By Value

6.4.3.2. Market Share & Forecast

6.4.3.2.1. By Connectivity Market Share Analysis

6.4.3.2.2. By Application Market Share Analysis

6.4.3.2.3. By Frequency Band Type Market Share Analysis

6.4.4. Brazil Connected Aircraft Market Outlook

6.4.4.1. Market Size & Forecast

6.4.4.1.1. By Value

6.4.4.2. Market Share & Forecast

6.4.4.2.1. By Connectivity Market Share Analysis

6.4.4.2.2. By Application Market Share Analysis

6.4.4.2.3. By Frequency Band Type Market Share Analysis

7. EUROPE & CIS CONNECTED AIRCRAFT MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.3. Market Size & Forecast

7.3.1. By Connectivity Market Share Analysis

7.3.2. By Application Market Share Analysis

7.3.3. By Frequency Band Type Market Share Analysis

- 7.3.4. By Country Market Share Analysis
 - 7.3.4.1. Russia Market Share Analysis
 - 7.3.4.2. Germany Market Share Analysis
 - 7.3.4.3. France Market Share Analysis
 - 7.3.4.4. United Kingdom Market Share Analysis
 - 7.3.4.5. Italy Market Share Analysis
 - 7.3.4.6. Spain Market Share Analysis
 - 7.3.4.7. Rest of Europe & CIS Market Share Analysis
- 7.4. Europe & CIS: Country Analysis
 - 7.4.1. Russia Connected Aircraft Market Outlook
 - 7.4.1.1. Market Size & Forecast
 - 7.4.1.1.1. By Value
 - 7.4.1.2. Market Share & Forecast
 - 7.4.1.2.1. By Connectivity Market Share Analysis
 - 7.4.1.2.2. By Application Market Share Analysis
 - 7.4.1.2.3. By Frequency Band Type Market Share Analysis
 - 7.4.2. Germany Connected Aircraft Market Outlook
 - 7.4.2.1. Market Size & Forecast
 - 7.4.2.1.1. By Value
 - 7.4.2.2. Market Share & Forecast
 - 7.4.2.2.1. By Connectivity Market Share Analysis
 - 7.4.2.2.2. By Application Market Share Analysis
 - 7.4.2.2.3. By Frequency Band Type Market Share Analysis
 - 7.4.3. France Connected Aircraft Market Outlook
 - 7.4.3.1. Market Size & Forecast
 - 7.4.3.1.1. By Value
 - 7.4.3.2. Market Share & Forecast
 - 7.4.3.2.1. By Connectivity Market Share Analysis
 - 7.4.3.2.2. By Application Market Share Analysis
 - 7.4.3.2.3. By Frequency Band Type Market Share Analysis
 - 7.4.4. United Kingdom Connected Aircraft Market Outlook
 - 7.4.4.1. Market Size & Forecast
 - 7.4.4.1.1. By Value
 - 7.4.4.2. Market Share & Forecast
 - 7.4.4.2.1. By Connectivity Market Share Analysis
 - 7.4.4.2.2. By Application Market Share Analysis
 - 7.4.4.2.3. By Frequency Band Type Market Share Analysis
 - 7.4.5. Italy Connected Aircraft Market Outlook
 - 7.4.5.1. Market Size & Forecast

- 7.4.5.1.1. By Value
- 7.4.5.2. Market Share & Forecast
 - 7.4.5.2.1. By Connectivity Market Share Analysis
 - 7.4.5.2.2. By Application Market Share Analysis
 - 7.4.5.2.3. By Frequency Band Type Market Share Analysis
- 7.4.6. Spain Connected Aircraft Market Outlook
 - 7.4.6.1. Market Size & Forecast
 - 7.4.6.1.1. By Value
 - 7.4.6.2. Market Share & Forecast
 - 7.4.6.2.1. By Connectivity Market Share Analysis
 - 7.4.6.2.2. By Application Market Share Analysis
 - 7.4.6.2.3. By Frequency Band Type Market Share Analysis

8. MARKET DYNAMICS

- 8.1. Market Drivers
- 8.2. Market Challenges

9. MARKET TRENDS AND DEVELOPMENTS

10. PORTER'S FIVE FORCES MODEL

- 10.1. Competitive Rivalry
- 10.2. Bargaining Power of Buyers
- 10.3. Bargaining Power of Suppliers
- 10.4. Threat of New Entrants
- 10.5. Threat of Substitutes

11. COMPETITIVE LANDSCAPE

- 11.1. Company Profiles (Up To 10 Major Companies)
 - 11.1.1. SITA
 - 11.1.1.1. Company Details
 - 11.1.1.2. Key Products Offered
 - 11.1.1.3. Recent Development
 - 11.1.1.4. Key Management Personnel
 - 11.1.2. Gogo Inc.
 - 11.1.2.1. Company Details

- 11.1.2.2. Key Products Offered
- 11.1.2.3. Recent Development
- 11.1.2.4. Key Management Personnel
- 11.1.3. Honeywell International Inc.
 - 11.1.3.1. Company Details
 - 11.1.3.2. Key Products Offered
 - 11.1.3.3. Recent Development
 - 11.1.3.4. Key Management Personnel
- 11.1.4. Panasonic Avionics Corporation
 - 11.1.4.1. Company Details
 - 11.1.4.2. Key Products Offered
 - 11.1.4.3. Recent Development
 - 11.1.4.4. Key Management Personnel
- 11.1.5. Thales Group
 - 11.1.5.1. Company Details
 - 11.1.5.2. Key Products Offered
 - 11.1.5.3. Recent Development
 - 11.1.5.4. Key Management Personnel
- 11.1.6. Global Eagle Entertainment Inc.
 - 11.1.6.1. Company Details
 - 11.1.6.2. Key Products Offered
 - 11.1.6.3. Recent Development
 - 11.1.6.4. Key Management Personnel
- 11.1.7. Collins Aerospace (United Technologies Corporation)
 - 11.1.7.1. Company Details
 - 11.1.7.2. Key Products Offered
 - 11.1.7.3. Recent Development
 - 11.1.7.4. Key Management Personnel
- 11.1.8. Inmarsat Global Limited
 - 11.1.8.1. Company Details
 - 11.1.8.2. Key Products Offered
 - 11.1.8.3. Recent Development
 - 11.1.8.4. Key Management Personnel
- 11.1.9. Cobham PLC
 - 11.1.9.1. Company Details
 - 11.1.9.2. Key Products Offered
 - 11.1.9.3. Recent Development
 - 11.1.9.4. Key Management Personnel
- 11.1.10. Kontron S&T AG

- 11.1.10.1. Company Details
- 11.1.10.2. Key Products Offered
- 11.1.10.3. Recent Development
- 11.1.10.4. Key Management Personnel

12. STRATEGIC RECOMMENDATIONS

- 12.1. Key Focus Areas
 - 12.1.1. Target Regions & Countries
 - 12.1.2. Target Connectivity
 - 12.1.3. Target Application

13. ABOUT US & DISCLAIMER

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