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Connected Aircraft Market Research Report - Global Forecast till 2032

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Description:

Global Connected Aircraft Market Overview

Connected Aircraft Market Size was valued at USD 1.1 billion in 2022. The Connected Aircraft market is projected to grow from USD 1.28 Billion in 2023 to USD 4.31 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 16.26% during the forecast period (2023 - 2032). The growing acquisition of next generation aircraft, as well as the necessity to upgrade existing communication systems to newer, more efficient ones are the key market drivers enhancing the market growth.

Connected Aircraft Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Connected Aircraft Market Trends

- **Growing use of big data analytics and real-time data analytics is driving the market growth**

Market CAGR for Connected Aircraft supplements is being driven by the rising use of big data analytics and real-time data analytics. The way organizations connect with their customers, make business decisions, and build workflows is changing drastically as technology advances. Data is undoubtedly transforming airline operations from pre-flight to post-flight, including ticketing, seat selection, luggage, boarding, and ground transportation, among other things. Consequently, the data necessary for hundreds of use cases is gathered as a passenger passes through the various stages of their journey. The ultimate benefits of Big Data analytics include quick responses to current and future market demands, enhanced planning and strategically aligned decision-making, and crystal-clear knowledge and monitoring of all major performance variables relevant to the aviation industry. Data analytics assists the industry in better understanding customer preferences as well as other maintenance issues.

For example, by utilizing predictive analysis technologies, the industry may target consumers with customized offers while optimizing real-time prices. Airlines may gain more reservations in the time given by gathering meaningful data. Furthermore, airlines must face high costs due to aircraft cancellations and delays caused by technological faults. Because of predictive analytics in the aircraft, the monitoring system informs or notifies the present technical conditions, which can assist the maintenance team in discovering difficulties and rectifying them, reducing aircraft downtime. The increased procurement of new aircraft and drones by the commercial and defense sectors has benefited the market. Each service flight necessitates efficient SATCOM service and improved connectivity, satellite components, airplane hardware, airtime connectivity, apps, services, and others. Expanding passenger trips worldwide has indicated a need for more fleets to manage civilized transportation and delivery operations. Installing an embedded aviation system can make communications and maintenance operations more dependable, limiting future component failures and repair services. Thus, driving the Connected Aircraft market revenue.

Connected Aircraft Market Segment Insights

Connected Aircraft Type Insights

The Connected Aircraft Market segmentation includes Systems and Solutions based on type. The systems segment dominated the market, accounting for 72% of market revenue. For the last several years, there has been an increase in the need for satellite communication for commercial and military uses. Basic tracking devices, established communication systems, and high-capacity multi-systems are all part of satellite communication systems. Satellite communication installation and operating costs account for a sizable portion of the industry.

Connected Aircraft Type Insights

Based on aircraft type, the Connected Aircraft Market segmentation includes fixed-wing and rotary-wing. The rotary-wing category generated the most income. The rising emphasis on aircraft dependability and passenger safety has prompted airlines to invest in these linked aircraft technologies. The desire to improve the passenger experience is also a major driver of industry expansion in the sector under consideration.

Figure 1: Connected Aircraft Market, by Type, 2022 & 2032 (USD billion)

Connected Aircraft Market, by Type, 2022 & 2032 (USD billion)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Connected Aircraft Connectivity Insights

Based on Connectivity, the Connected Aircraft Market segmentation includes in-flight, air-to-ground, and aircraft-to-aircraft. The in-flight category generated the most income. The rising demand for lightweight vessels is driving the expansion. One of the primary drivers of sector development is the increasing need for Wi-Fi current connection systems and 5G internet access for crew and passengers.

Connected Aircraft Frequency Band Insights

Based on frequency band, the Connected Aircraft Market segmentation includes Ka-Band, Ku-Band, and L-Band. The Ka-Band category generated the most income. Increasing airplane demand for 27 to 40-GHz frequency-based systems for quicker connection and worldwide coverage will drive segment growth throughout the projected period.

Connected Aircraft Application Insights

The Connected Aircraft Market segmentation is based on application commercial and military. The commercial category generated the most income. The inflight connection has been a major emphasis for commercial aviation in recent years, and airlines have begun integrating this linked aircraft technology. Because connected aircraft technology is relatively new for the military, demand from the category is predicted to be higher due to the military's increasing use of this technology.

Connected Aircraft Regional Insights

By Region, the report provides market insights for Europe, Asia-Pacific, North America, and the Rest of the World. The North American Connected Aircraft market will dominate this market. The increasing number of aircraft orders from the area and the expanding commercial use of connected aircraft technology are the primary growth factors for the region's market. Connected aircraft technology is gradually gaining traction in the military, particularly in the United States, where military aircraft modernization and upgrading existing technologies are prioritized.

Additonlly, the major countries studied in the market report are The U.S., Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: CONNECTED AIRCRAFT MARKET SHARE BY REGION 2022 (%)

CONNECTED AIRCRAFT MARKET SHARE BY REGION 2022 (%)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe Connected Aircraft market accounts for the second-largest market share due to developing at a modest rate due to a rise in passenger air traffic and the presence of important key players and OEMs who significantly influence the region's market growth. Further, the German Connected Aircraft market held the largest market share, and the market for connected aircraft in the United Kingdom was the fastest growing in the European Union.

The Asia-Pacific Connected Aircraft Market is expected to grow at the fastest CAGR from 2023 to 2032. This is due to the improvement in the economies of growing nations such as India, and China can be linked to the growth. Rising demand for new aircraft is likely to drive market expansion. Moreover, China’s Connected Aircraft market held the largest market share, and The Indian Connected Aircraft market was the fastest growing in the Asia-Pacific region.

Connected Aircraft Key Market Players & Competitive Insights

Leading market companies are extensively spending on R&D to increase their product lines, which will help the Connected Aircraft market grow even more. Important market developments include new product releases, contractual agreements, mergers and acquisitions, greater investments, and collaboration with other organizations. To grow and thrive in a more competitive and increasing market environment, the Connected Aircraft business must provide cost-effective products.

Manufacturing locally to reduce operating costs is a fundamental business strategy manufacturers use worldwide Connected Aircraft industry to serve customers and expand the market sector. In recent years, the Connected Aircraft industry has offered some of the most significant. Major players in the Connected Aircraft market, including Collins Aerospace , Honeywell International and others, are attempting to increase market demand by investing in research and development operations.

Collins Aerospace is an American technology company that is a major aerospace and defense equipment provider worldwide. It is a Raytheon Technologies company with headquarters in Charlotte, North Carolina. Collins Aerospace creates, manufactures, and services systems and components for commercial and business aviation, military and defense, helicopters, space, airports, and other industries. Collins Aerospace's six strategic business units are Aerostructures, Avionics, Interiors, Mechanical Systems, Mission Systems, and Power & Controls. In November 2021, Collins Aerospace agreed to assist Japan Airlines (JAL) Boeing 787 fleet through its DispatchSM flying program. End users can purchase high-performance avionics and communications assets from the corporation.

Gogo Business Aviation (previously Aircell) is a part of Gogo Inflight Internet that offers in-flight broadband Internet connection and other connectivity services for business aircraft. Its headquarters are in Broomfield, Colorado. The Federal Communications Commission (FCC) and the Federal Aviation Administration (FAA) have authorized Gogo Business Aviation to use frequencies in the 800 MHz bands for in-flight communications. In march 2020, Gogo Business Aviation AVANCE Systems has completed one million flights. The business hopes to form alliances with important airlines worldwide to provide in-flight connectivity services.

Key Companies in the Connected Aircraft market include

- BAE Systems PLC
- Zodiac Aerospace
- Panasonic Avionics Corporation
- Burrana Inc.
- Thales Group
- Cobham PLC
- Gogo LLC
- Inmarsat plc
- Kontron S&T AG
- Honeywell International, Inc.
- Rockwell Collins, Inc.
- Viasat SpA
- Global Eagle Entertainment Inc.

Connected Aircraft Industry Developments

April 2022 Universal Avionics introduced Connectivity Ecosystem Technology, which enables airplane pilots to link their Apple iPad to the flight management system. It enables two-way communication, data collecting, and the upload/download of FMS and other avionics system data.

April 2022 BAE Systems was awarded USD 22 million for delivering AN/AAR-57, a common missile warning system, an electronic warfare system that detects threats to safeguard aircraft and personnel. BAE Systems have already installed more than 3,000 CMWS devices.

January 2021 Delta Air Lines has chosen Viasat's industry-leading next-generation Ka-band satellite in-flight connectivity (IFC) system for over 300 mainline narrow-body aircraft, including new deliveries and retrofits on A321ceo, 737-900ER, and select 757-200 aircraft. Delta aims to install Viasat equipment on these aircraft beginning in summer 2021, with the potential to add further fleets.

Connected Aircraft Market Segmentation

Connected Aircraft Type Outlook

- Systems
- Solutions

Connected Aircraft Type Outlook

- Fixed-Wing
- Rotary-Wing

Connected Aircraft Connectivity Outlook

- In-Flight
- Air-to-Ground
- Aircraft-to-Aircraft

Connected Aircraft Frequency Band Outlook

- Ka-Band
- Ku-Band
- L-Band

Connected Aircraft Application Outlook

- Commercial
- Military

Connected Aircraft Regional Outlook

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa

- Latin America

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