

Airborne SATCOM Market Size, Share & Trends Analysis Report By Installation (New Installation, Retrofit), By End-use (Commercial, Military & Defense), By Component, By Platform, By Frequency, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Airborne SATCOM Market Size & Trends

The global airborne SATCOM market size was estimated at USD 5.75 billion in 2023 and is expected to grow at a CAGR of 5.8% from 2024 to 2030. The market growth is attributed to the rising demand for advanced communication systems to enhance passenger experience and operational efficiency amid the global expansion of commercial aviation, with more aircraft being added to fleets. Moreover, the increasing demand for reliable, high-speed internet access during flights for entertainment, work, and communication drives the demand for satellite communications (SATCOM) systems among airlines. In addition, the growing demand for these systems to enhance communication for flight crews and improve coordination with ground control teams is further propelling the market growth.

Market growth is further driven by the increasing number of military and defense applications. Defense organizations increasingly adopt airborne SATCOM systems to establish critical communication links for command and control, intelligence, surveillance, and reconnaissance (ISR) missions. Moreover, these systems offer the ability to transmit real-time data between airborne assets and ground control stations during military missions, further driving their demand and contributing to the market growth.

In addition, airborne SATCOM is crucial during disaster management when terrestrial communication infrastructure is damaged or nonexistent. Moreover, government agencies also use SATCOM systems for surveillance, border patrol, and other security operations that require real-time communication and data transfer. The growing usability of these systems across various industries and government organizations is expected to accelerate market growth over the foreseeable future.

The market is undergoing rapid technological advancements that improve existing capabilities and create avenues for new applications. Several market players focus on developing innovative solutions, which are expected to drive market growth significantly over the coming years. For instance, in July 2024, TURKSAT-6A, Turkey's first communication satellite, equipped with X-Band and Ku-Band communication payloads by Aselsan S.A., was launched from Florida, U.S. This new initiative is a major milestone for Turkey as it has placed the country within the league of countries capable of developing their communication satellites.

Global Airborne SATCOM Market Report Segmentation

This report forecasts and estimates revenue growth at the global, regional, and country levels along with analyzes the latest market trends and opportunities in each one of the sub-segments from 2018 to 2030. For this study, Grand View Research has further segmented the global airborne SATCOM market report based on component, platform, frequency, installation, end-use, and region.

Component Outlook (Revenue, USD Million, 2018 - 2030)

Transceivers

Airborne Radio

Modems & Routers

SATCOM Routers

SATCOM Terminals

Others

Platform Outlook (Revenue, USD Million, 2018 - 2030)

Commercial Aircraft

Military Aircraft

Business Jets

Helicopters

Unmanned Aerial Vehicles (UAV)

Frequency Outlook (Revenue, USD Million, 2018 - 2030)

C-Band

L-Band

Ka-Band

Ku-Band

UHF-Band

Others

Installation Outlook (Revenue, USD Million, 2018 - 2030)

New Installation

Retrofit

End Use Outlook (Revenue, USD Million, 2018 - 2030)

Commercial

Military & Defense

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

Japan

China

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

UAE

Saudi Arabia

South Africa

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