

# **Aviation Internet of Things Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By End-use (Airline Operators, Airport, MRO, Aircraft OEM), By Component (Hardware, Service, Software), By Application (Aircraft Operations, Asset Management, Ground Operations, Passenger Experience), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Aviation Internet of Things Market will grow from USD 9.61 Billion in 2025 to USD 32.67 Billion by 2031 at a 22.62% CAGR. The Global Aviation Internet of Things Market involves the deployment of interconnected sensors, devices, and software across the aviation ecosystem to facilitate real-time data exchange and enhance operational intelligence.

## **Key Market Drivers**

The rising adoption of predictive maintenance and aircraft health monitoring is a primary force propelling the Global Aviation Internet of Things Market. Airlines are increasingly utilizing interconnected sensors to stream real-time engine and component data, enabling operators to preempt mechanical failures and minimize costly aircraft downtime (AOG). This transition from reactive to proactive maintenance strategies significantly lowers operational expenses while enhancing fleet reliability and safety.

## **Key Market Challenges**

The expansion of the Global Aviation Internet of Things Market is heavily impeded by the substantial risks associated with cybersecurity vulnerabilities. As the industry moves toward a fully interconnected ecosystem linking aircraft, airports, and ground control, the attack surface for malicious actors expands significantly. This exposure compels aviation stakeholders to treat data protection as a fundamental safety requirement rather than a secondary IT function.

### **Key Market Trends**

The implementation of IoT-driven smart baggage tracking ecosystems is fundamentally reshaping logistics by providing end-to-end visibility of luggage throughout the travel journey. Airlines and airports are deploying radio-frequency identification (RFID) and Bluetooth Low Energy (BLE) beacons to monitor bags at critical touchpoints, thereby ensuring compliance with industry standards like IATA Resolution 753 and mitigating passenger anxiety regarding lost items. This granular tracking capability not only automates the reconciliation process between passengers and their belongings but also drastically reduces the incidence of delayed or lost luggage.

### **Key Market Players**

Honeywell International Inc.

Siemens AG

General Electric Company

International Business Machines Corporation

Cisco Systems Inc.

Microsoft Corporation

Tata Communications Limited

Huawei Technologies Co. Ltd.

SITAONAIR

SAP SE

**Report Scope:**

In this report, the Global Aviation Internet of Things Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

**Aviation Internet of Things Market, By End-use:**

Airline Operators

Airport

MRO

Aircraft OEM

**Aviation Internet of Things Market, By Component:**

Hardware

Service

Software

**Aviation Internet of Things Market, By Application:**

Aircraft Operations

Asset Management

Ground Operations

Passenger Experience

**Aviation Internet of Things Market, By Region:**

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

### **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Aviation Internet of Things Market.

### **Available Customizations:**

Global Aviation Internet of Things Market report 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).

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