+357 96 030922
info@marketpublishers.com

Global Aviation Cyber Security Market to Reach USD 16.08 Billion by 2032

https://marketpublishers.com/r/G0138358FCD1EN.html
Date: March 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: G0138358FCD1EN

Abstracts

The Global Aviation Cyber Security Market is valued at approximately USD 9.24 billion in 2023 and is projected to exhibit a compound annual growth rate (CAGR) of 6.35% during the forecast period of 2024 to 2032. Aviation cyber security has become a critical focal point for industry stakeholders as the aviation sector increasingly integrates advanced digital systems into aircraft, airports, and air traffic management networks. The sector's rapid digital transformation, driven by the widespread adoption of IoT, AI-powered analytics, and cloud-based data management, has significantly expanded the attack surface for potential cyber threats. From flight management systems and passenger data to critical communication channels, cyber security measures are indispensable in ensuring operational resilience, data integrity, and passenger safety.

As cyber threats in aviation become more sophisticated, fueled by state-sponsored attacks, ransomware incidents, and data breaches, regulatory bodies worldwide are tightening cyber security mandates. The adoption of next-generation cyber security solutions, including AI-driven threat detection, zero-trust architectures, and blockchain-enabled data security, is playing a pivotal role in fortifying aviation networks against evolving cyber risks. Additionally, increased cloud adoption within the aviation ecosystem has necessitated robust cloud security frameworks to protect data in transit and at rest. Industry leaders and aviation authorities are actively collaborating to establish global cyber resilience standards, ensuring compliance with stringent aviation cyber security frameworks such as ICAO’s Aviation Cybersecurity Strategy and EU's NIS Directive.

The market's growth trajectory is further bolstered by the surge in global air passenger traffic, leading to heightened reliance on digital infrastructure for air traffic control, ticketing systems, baggage handling, and in-flight connectivity. Airlines and airport

+357 96 030922
info@marketpublishers.com

operators are investing significantly in cyber security-as-a-service (CSaaS) models to manage and mitigate risks efficiently. Blockchain technology is being increasingly explored to ensure secure digital identities and streamline passenger verification processes, reducing vulnerabilities associated with identity fraud and unauthorized access. Meanwhile, the escalating frequency of ransomware attacks on airline databases has compelled aviation companies to adopt advanced endpoint security solutions, ensuring robust protection across distributed systems and remote operational sites.

Geographically, North America dominates the aviation cyber security market, largely due to the presence of leading cyber security firms, stringent FAA regulations, and significant investments in aviation infrastructure modernization. The European market follows closely, with major airline operators and airport authorities investing in next-generation AI-powered security systems to counter rising cyber threats. In contrast, the Asia-Pacific region is poised for the fastest growth, driven by the increasing digitization of air traffic control systems in countries like China, India, and Singapore. The Middle East is also witnessing substantial advancements in cyber security frameworks, particularly as nations like UAE and Saudi Arabia prioritize aviation infrastructure security in alignment with their smart airport initiatives.

Major market players included in this report are:

Thales Group

Raytheon Technologies Corporation

Honeywell International Inc.

BAE Systems PLC

Airbus SE

The Boeing Company

IBM Corporation

Lockheed Martin Corporation

Palo Alto Networks, Inc.

+357 96 030922
info@marketpublishers.com

Northrop Grumman Corporation

FireEye, Inc.

Cisco Systems, Inc.

Trend Micro Incorporated

Check Point Software Technologies Ltd.

Fortinet, Inc.

The detailed segments and sub-segments of the market are explained below:

By Component:

Hardware

Software

Services

By Type:

Endpoint Security

Cloud Security

By Deployment:

Cloud-based

On-premises

+357 96 030922
info@marketpublishers.com

By Application:

- Airline Operators
- Airport Authorities
- Air Traffic Management Systems
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China

+357 96 030922
info@marketpublishers.com

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024-2032

Key Takeaways:

+357 96 030922
info@marketpublishers.com

Market estimates & forecasts for 10 years (2022-2032).

Annualized revenues and regional-level analysis for each market segment.

In-depth geographical landscape analysis with country-level insights.

Competitive landscape featuring comprehensive company profiles of major market players.

Strategic recommendations for market entry, expansion, and investment decisions.

Demand-side and supply-side market trend analysis.

Evaluation of regulatory frameworks, industry standards, and emerging market trends shaping the sector.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 4.GLOBAL AVIATION CYBER SECURITY MARKET INDUSTRY ANALYSIS

CHAPTER 5.GLOBAL AVIATION CYBER SECURITY MARKET SIZE & FORECASTS BY COMPONENT & TYPE 2022-2032

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 8.COMPETITIVE INTELLIGENCE

+357 96 030922
info@marketpublishers.com

CHAPTER 9.RESEARCH PROCESS

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Aviation Cyber Security Market to Reach USD 16.08 Billion by 2032

Product link: https://marketpublishers.com/r/G0138358FCD1EN.html

Price: US$ 3,218.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G0138358FCD1EN.html