

Aircraft Health Monitoring Market Soars with Cutting-Edge Technology & Rising Aviation Safety Demands 2025

Aircraft Health Monitoring Market involves systems that track, analyze, and predict aircraft performance to ensure safety, efficiency, and reduced downtime.

AUSTIN, TX, UNITED STATES, August 5, 2025 /EINPresswire.com/ -- According to DataM Intelligence, The Global [Aircraft Health Monitoring Market](#) is predicted to develop at a 7.47% CAGR between 2024 and 2031. Rising demand for real-time aircraft data analytics, a greater emphasis on flight safety, predictive maintenance adoption, and an expanding commercial aviation fleet are propelling the Aircraft Health Monitoring System market forward.



DATA INTELLIGENCE Aircraft Health Monitoring Market

CAGR of 7.47%

Key players:

- Boeing
- Airbus S.A.S.
- UTC Aerospace Systems
- GE Aviation
- Rockwell Collins
- Ultra-Electronics Holdings PLC
- Meggitt PLC
- Rolls-Royce plc

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Aircraft Health Monitoring Market

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Aircraft Health Monitoring Market thrives on advanced diagnostics, real-time data, and predictive maintenance, ensuring safety, efficiency, and reduced operational costs.”

DataM Intelligence

Market Growth Drivers & Opportunities:

Rising Air Traffic & Fleet Expansion: Surging global air travel and expanding commercial fleet sizes drive the need for comprehensive health monitoring for safety and operational optimization.

Predictive Maintenance & Cost Savings: Airlines and MRO providers increasingly adopt AI-powered diagnostics and predictive maintenance tools to reduce unscheduled

downtime and extend component life.

Regulatory & Safety Pressures: Heightened regulatory oversight following aviation incidents has accelerated the deployment of real-time monitoring systems.

Technological Innovation: Integration of IoT, AI, machine learning, edge analytics, wireless sensors, and real-time diagnostics enhances system capabilities and opens new application domains.

Market Segmentation:

By Aircraft Type:

Commercial Aircraft

Military Aircraft

Others.

By Fit Type:

Linefit

Retrofit.

By Sub-System Type:

Airborne Health Monitoring Sub-system

Ground Health Diagnostic Sub-system

By Region:

North America

Latin America

Europe

Asia Pacific

Middle East

Africa.

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Geographical Market Share:

North America currently holds the largest share (34–37%), led by the United States, followed by Canada, supported by mature infrastructure and large fleets.

The Asia-Pacific region, encompassing China, India, Japan, and South Korea, is experiencing the fastest growth. Driven by accelerating industrialization and aviation expansion, APAC's market share is projected to reach USD 7.0 billion by 2025.

Europe captures a moderate share (6% CAGR) but remains significant due to advanced

regulatory regimes and aerospace innovation hubs.

Country-specific forecasts for 2025:

United States: USD 2.4 billion

Japan: USD 450 million

Key Players:

Top vendors actively shaping the market include:

Boeing

Airbus S.A.S.

UTC Aerospace Systems

GE Aviation

Rockwell Collins

Ultra-Electronics Holdings PLC

Meggitt PLC

Rolls-Royce plc.

Recent Developments:

United States:

FAA's ADS-B mandate and NextGen push (2025): From August 1, 2025, the FAA will phase out GPS-based monitoring in RVSM airspace and require certified ADS-B height monitoring systems for altitude compliance, significantly upgrading surveillance infrastructure.

U.S. Congressional push on ADS-B standards (mid-2025): In response to a January 2025 midair collision, legislation sponsored by U.S. Senate leadership would mandate ADS-B Out/In equipment for military, law enforcement, and civilian aircraft operating near airports, tightening safety protocols.

Japan:

Japan Airlines FDM upgrades (late 2024 / early 2025) – JAL rolled out advanced Flight Data Monitoring systems integrated with predictive analytics to enhance safety, cut maintenance costs and fuel consumption by up to 30%.

Safran predictive maintenance partnerships (June 2025) – Safran announced new contracts supplying onboard vibration, pressure, and temperature sensor arrays for Japanese operator fleets, expanding real-time monitoring capabilities in the country.

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Conclusion:

The Global Aircraft Health Monitoring Market is undergoing robust growth, enabled by advancing technologies, increasing regulatory attention, and the expanding global fleet. North America remains the dominant market, while Asia-Pacific including Japan is rapidly scaling. Major aerospace and defense players continue to innovate through AI, IoT, and predictive analytics. Recent policy shifts in the U.S. and ambitious aerospace innovation in Japan in 2024–2025 are further accelerating demand. Companies investing now in advanced sensor networks, data fusion, and regulatory-aligned solutions will be best positioned to capture this evolving and high-potential market.

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