

Comprehensive Insights Of The Global Aerospace And Defense Telemetry Market: Key Drivers, Trends & Forecast 2025-2034

The Business Research Company's Aerospace And Defense Telemetry Global Market Report 2025 - Market Size, Trends, And Global Forecast 2025-2034

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Aerospace And Defense Telemetry Market Report
2025 - Market Size, Trends, And Global Forecast 2025-2034

[The aerospace and defense telemetry market size](#) has shown substantial growth in recent years. The market is expected to expand from \$8 billion in 2024 to \$8.67 billion in 2025, reflecting a

compound annual growth rate CAGR of 8.4%. This upturn during the historical period stems from geopolitical tensions, military modernization, augmented defense budget allocations, expansion of aircraft fleets, and a surge in space exploration.

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What's Fueling The [Growth Of The Aerospace And Defense Telemetry Market](#) Going Forward?

The scale of the aerospace and defense telemetry market is projected to witness robust growth in the forthcoming years, reaching \$11.61 billion in 2029 at a CAGR of 7.6%. The primary factors contributing to market growth in the

forecast period include intensifying global security threats, increasing demand for military unmanned aerial vehicles UAVs, and a boost in research and development activities. Some major trends expected to shape the market during the forecast period are the incorporation of satellite-based telemetry, AI and data analytics, miniaturization of telemetry devices, integration of internet of things IoT technologies, and the use of telemetry in hypersonic systems.

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What's Driving The Aerospace And Defense Telemetry Market Growth?

A significant catalyst propelling the growth of the aerospace and defense telemetry market is the increased defense spending by countries. The defense budget, denoting the funds dedicated by governments to their defense mechanisms' augmentation, is on the rise. This escalation in defense budgets will inevitably lead to the procurement and upgrade of aerospace and defense telemetry, critical elements in defense information transformation. For instance, as per a USFACT report from August 2024, the U.S. military spent approximately \$820.3 billion in 2023, contributing to roughly 13.3% of the entire federal budget for that fiscal year. This prompted the Department of Defense DoD to request \$842.0 billion for 2024, illustrating a 2.6% uptick. Hence, increasing defense budgets is a major driving force behind the growth of the aerospace and defense market.

What Key Player Strategies Are Driving The Aerospace And Defense Telemetry Market?

In the aerospace and defense telemetry market, key industry players include BAE Systems, Lockheed Martin Corporation, L3 Technologies, Safran Spa, Cobham Limited, Honeywell Corporation, Thales Group, Orbit Communications Systems Ltd., Dassault Aviation SA, Curtiss-Wright Corporation, and others. These industry giants are continually seeking technological innovation to maintain their competitive edge in the market.

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What Are The Emerging Trends In The Aerospace And Defense Telemetry Market?

The advent of technological advancements is a significant trend gaining traction in the aerospace and defense telemetry markets. Major industry players are striving to develop novel technologies to retain market dominance. An instance of this is the launch of v1.0 of the OpenTelemetry specification by Dynatrace, a US-based technology company, in February 2022. This specification, built on Dynatrace's distributed tracing technology, supports traces and metrics, ensuring a seamless transition from OpenTracing and OpenCensus.

How Is The Aerospace And Defense Telemetry Market Segmented?

The aerospace and defense telemetry market sees segmentation in terms of:

- By Type: Radio, Satellite
- By Equipment: Data Acquisition Unit, Telemetry Transmitters, Flight Terminator Receivers
- By Component: Control device, Display, Recorder, Sensors, Transmitter
- By Application: Aircraft, Spacecraft, Unmanned Aerial Vehicle UAVs, Other Applications

The market encompasses subsegments such as Analog Radio Telemetry, Digital Radio Telemetry,

Frequency Modulated FM Telemetry, Pulse Code Modulated PCM Telemetry, Low Earth Orbit LEO Telemetry, Medium Earth Orbit MEO Telemetry, Geostationary Orbit GEO Telemetry, Iridium Satellite Telemetry, among others.

What Are The Regional Insights In The Aerospace And Defense Telemetry Market?

In the aerospace and defense telemetry market, North America held the position of the largest region in 2024. However, the Middle East and Africa are anticipated to emerge as the fastest-growing regions in the aerospace and defense telemetry market share throughout the forecast period. The regions examined in this report comprise Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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