

# **Aerospace & Defense Telemetry Market By Telemetry Type (Radio Telemetry, Satellite Telemetry, Wireless Telemetry, Wired Telemetry), By Component (Data acquisition, Transmitter, Receivers, Antennas, Others), By Application (Aircraft, Spacecraft, UAVs, Missiles, Guided Weapons): Global Opportunity Analysis and Industry Forecast, 2023-2032**

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## **Abstracts**

The global aerospace & defense telemetry market was valued at \$2.7 billion in 2022, and is projected to reach \$4.9 billion by 2032, growing at a CAGR of 6.4% from 2023 to 2032.

Aerospace and defense telemetry market refers to the global industry involved in the development, production, and deployment of telemetry systems and solutions specifically tailored for aerospace and defense applications. Telemetry is the process of collecting and transmitting data remotely from sensors or measurement devices installed on aircraft, missiles, spacecraft, unmanned systems (such as drones), and other defense platforms. Furthermore, aerospace and defense telemetry market, telemetry systems play a critical role in capturing real-time data related to the performance, operational status, and environmental conditions of aerospace and defense assets. This data is transmitted wirelessly to ground stations, control centers, or monitoring facilities, where it is processed, analyzed, and utilized for mission-critical purposes.

Telemetry systems monitor and transmit data during flight tests to assess aircraft

performance, aerodynamics, structural integrity, and system functionality. Telemetry enables remote monitoring and control of unmanned aerial vehicles (UAVs), drones, and autonomous systems during missions, providing operators with situational awareness and operational insights. Telemetry supports space missions by transmitting telemetry data from spacecraft and satellites, including telemetry related to orbit determination, propulsion systems, payload operations, and health monitoring.

The aerospace and defense telemetry are driven by a technological advancement in sensors and communication, as modern telemetry systems can integrate data from multiple sensors to provide comprehensive insights into the operational status and performance of aerospace and defense assets. By fusing data from different sensors, such as inertial sensors, GPS receivers, radar systems, and vision sensors, telemetry systems can enhance situational awareness and decision-making capabilities. Furthermore, rise in demand for unmanned systems has driven the demand for the aerospace and defense telemetry. However, stringent regulatory requirements have hampered the expansion of aerospace and defense telemetries. Meeting stringent regulatory standards often requires extensive testing, certification, and compliance processes. Telemetry system developers and manufacturers must invest significant resources and time to ensure that their products meet regulatory requirements, which can increase development costs and time-to-market. Furthermore, budgetary constraints and defense spending must restrict the aerospace and defense telemetry growth. On the contrary, the integration of telemetry with artificial intelligence (AI) is giving the aerospace and defense telemetry strategic opportunity. In real-time, AI systems can process enormous volumes of telemetry data and extract insightful patterns and insights that human analysts could have overlooked. AI improves data analytics capabilities, enabling anomaly detection, predictive maintenance, and performance optimization by using machine learning and deep learning algorithms.

The aerospace and defense telemetry market is segmented on the basis of telemetry type, component, application, and region. On the basis of telemetry type, the market is divided into radio telemetry, satellite telemetry, wireless telemetry, and wired telemetry. By component, it is divided into data acquisition unit, telemetry transmitters, antennas, and processor. On the basis application, it is classified into aircraft, spacecraft, UAVs, missiles, guide weapons, and others. On the basis of region, it is analysed across North America, Europe, Asia-Pacific, Latin America, and Middle East and Africa.

The report analyzes the profiles of key players operating in the aerospace and defense telemetry market such as AstroNova, Inc., BAE Systems, CASE, Honeywell

International Inc., L3Harris Technologies, Inc., Orbit Communications Systems, Safran S.A., Mistral Solutions Pvt. Ltd., Curtiss-Wright Corporation, and Kongsberg Defence & Aerospace. These players have adopted various strategies to increase their market penetration and strengthen their position in the Aerospace and defense telemetry market.

### Key Benefits for Stakeholders

The study provides in-depth analysis of the global aerospace and defense telemetry along with the current & future trends to illustrate the imminent investment pockets.

Information about key drivers, restrains, & opportunities and their impact analysis on the global aerospace and defense telemetry size are provided in the report.

Porter's five forces analysis illustrates the potency of buyers and suppliers operating in the industry.

The quantitative analysis of the global aerospace and defense telemetry from 2022 to 2032 is provided to determine the market potential.

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Investment Opportunities

Market share analysis of players by products/segments

Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Market share analysis of players at global/region/country level

SWOT Analysis

Key Market Segments

By Telemetry Type

Radio Telemetry

Satellite Telemetry

Wireless Telemetry

Wired Telemetry

## By Component

Data acquisition

Transmitter

Receivers

Antennas

Others

## By Application

Aircraft

Spacecraft

UAVs

Missiles

Guided Weapons

## By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Middle East and Africa

South Africa

United Arab Emirates

Egypt

Israel

Rest of Middle East And Africa

## Key Market Players

AstroNova, Inc.

BAE Systems

CASE

Honeywell International Inc.

L3Harris Technologies, Inc.

Orbit Communications Systems

Safran S.A.

Mistral Solutions Pvt. Ltd.

Curtiss-Wright Corporation

Kongsberg Defence & Aerospace

## Contents

### **CHAPTER 1: INTRODUCTION**

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research methodology
  - 1.4.1. Primary research
  - 1.4.2. Secondary research
  - 1.4.3. Analyst tools and models

### **CHAPTER 2: EXECUTIVE SUMMARY**

- 2.1. CXO perspective

### **CHAPTER 3: MARKET OVERVIEW**

- 3.1. Market definition and scope
- 3.2. Key findings
  - 3.2.1. Top impacting factors
  - 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
- 3.4. Market dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### **CHAPTER 4: AEROSPACE & DEFENSE TELEMETRY MARKET, BY TELEMETRY TYPE**

- 4.1. Overview
  - 4.1.1. Market size and forecast
- 4.2. Radio Telemetry
  - 4.2.1. Key market trends, growth factors and opportunities
  - 4.2.2. Market size and forecast, by region
  - 4.2.3. Market share analysis by country
- 4.3. Satellite Telemetry
  - 4.3.1. Key market trends, growth factors and opportunities



- 4.3.2. Market size and forecast, by region
- 4.3.3. Market share analysis by country
- 4.4. Wireless Telemetry
  - 4.4.1. Key market trends, growth factors and opportunities
  - 4.4.2. Market size and forecast, by region
  - 4.4.3. Market share analysis by country
- 4.5. Wired Telemetry
  - 4.5.1. Key market trends, growth factors and opportunities
  - 4.5.2. Market size and forecast, by region
  - 4.5.3. Market share analysis by country

## **CHAPTER 5: AEROSPACE & DEFENSE TELEMETRY MARKET, BY COMPONENT**

- 5.1. Overview
  - 5.1.1. Market size and forecast
- 5.2. Data acquisition
  - 5.2.1. Key market trends, growth factors and opportunities
  - 5.2.2. Market size and forecast, by region
  - 5.2.3. Market share analysis by country
- 5.3. Transmitter
  - 5.3.1. Key market trends, growth factors and opportunities
  - 5.3.2. Market size and forecast, by region
  - 5.3.3. Market share analysis by country
- 5.4. Receivers
  - 5.4.1. Key market trends, growth factors and opportunities
  - 5.4.2. Market size and forecast, by region
  - 5.4.3. Market share analysis by country
- 5.5. Antennas
  - 5.5.1. Key market trends, growth factors and opportunities
  - 5.5.2. Market size and forecast, by region
  - 5.5.3. Market share analysis by country
- 5.6. Others
  - 5.6.1. Key market trends, growth factors and opportunities
  - 5.6.2. Market size and forecast, by region
  - 5.6.3. Market share analysis by country

## **CHAPTER 6: AEROSPACE & DEFENSE TELEMETRY MARKET, BY APPLICATION**

- 6.1. Overview

- 6.1.1. Market size and forecast
- 6.2. Aircraft
  - 6.2.1. Key market trends, growth factors and opportunities
  - 6.2.2. Market size and forecast, by region
  - 6.2.3. Market share analysis by country
- 6.3. Spacecraft
  - 6.3.1. Key market trends, growth factors and opportunities
  - 6.3.2. Market size and forecast, by region
  - 6.3.3. Market share analysis by country
- 6.4. UAVs
  - 6.4.1. Key market trends, growth factors and opportunities
  - 6.4.2. Market size and forecast, by region
  - 6.4.3. Market share analysis by country
- 6.5. Missiles
  - 6.5.1. Key market trends, growth factors and opportunities
  - 6.5.2. Market size and forecast, by region
  - 6.5.3. Market share analysis by country
- 6.6. Guided Weapons
  - 6.6.1. Key market trends, growth factors and opportunities
  - 6.6.2. Market size and forecast, by region
  - 6.6.3. Market share analysis by country

## **CHAPTER 7: AEROSPACE & DEFENSE TELEMETRY MARKET, BY REGION**

- 7.1. Overview
  - 7.1.1. Market size and forecast By Region
- 7.2. North America
  - 7.2.1. Key market trends, growth factors and opportunities
  - 7.2.2. Market size and forecast, by Telemetry Type
  - 7.2.3. Market size and forecast, by Component
  - 7.2.4. Market size and forecast, by Application
  - 7.2.5. Market size and forecast, by country
    - 7.2.5.1. U.S.
      - 7.2.5.1.1. Market size and forecast, by Telemetry Type
      - 7.2.5.1.2. Market size and forecast, by Component
      - 7.2.5.1.3. Market size and forecast, by Application
    - 7.2.5.2. Canada
      - 7.2.5.2.1. Market size and forecast, by Telemetry Type
      - 7.2.5.2.2. Market size and forecast, by Component

7.2.5.2.3. Market size and forecast, by Application

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by Telemetry Type

7.2.5.3.2. Market size and forecast, by Component

7.2.5.3.3. Market size and forecast, by Application

7.3. Europe

7.3.1. Key market trends, growth factors and opportunities

7.3.2. Market size and forecast, by Telemetry Type

7.3.3. Market size and forecast, by Component

7.3.4. Market size and forecast, by Application

7.3.5. Market size and forecast, by country

7.3.5.1. UK

7.3.5.1.1. Market size and forecast, by Telemetry Type

7.3.5.1.2. Market size and forecast, by Component

7.3.5.1.3. Market size and forecast, by Application

7.3.5.2. Germany

7.3.5.2.1. Market size and forecast, by Telemetry Type

7.3.5.2.2. Market size and forecast, by Component

7.3.5.2.3. Market size and forecast, by Application

7.3.5.3. France

7.3.5.3.1. Market size and forecast, by Telemetry Type

7.3.5.3.2. Market size and forecast, by Component

7.3.5.3.3. Market size and forecast, by Application

7.3.5.4. Rest of Europe

7.3.5.4.1. Market size and forecast, by Telemetry Type

7.3.5.4.2. Market size and forecast, by Component

7.3.5.4.3. Market size and forecast, by Application

7.4. Asia-Pacific

7.4.1. Key market trends, growth factors and opportunities

7.4.2. Market size and forecast, by Telemetry Type

7.4.3. Market size and forecast, by Component

7.4.4. Market size and forecast, by Application

7.4.5. Market size and forecast, by country

7.4.5.1. China

7.4.5.1.1. Market size and forecast, by Telemetry Type

7.4.5.1.2. Market size and forecast, by Component

7.4.5.1.3. Market size and forecast, by Application

7.4.5.2. Japan

7.4.5.2.1. Market size and forecast, by Telemetry Type

7.4.5.2.2. Market size and forecast, by Component

7.4.5.2.3. Market size and forecast, by Application

7.4.5.3. India

7.4.5.3.1. Market size and forecast, by Telemetry Type

7.4.5.3.2. Market size and forecast, by Component

7.4.5.3.3. Market size and forecast, by Application

7.4.5.4. South Korea

7.4.5.4.1. Market size and forecast, by Telemetry Type

7.4.5.4.2. Market size and forecast, by Component

7.4.5.4.3. Market size and forecast, by Application

7.4.5.5. Rest of Asia-Pacific

7.4.5.5.1. Market size and forecast, by Telemetry Type

7.4.5.5.2. Market size and forecast, by Component

7.4.5.5.3. Market size and forecast, by Application

7.5. Latin America

7.5.1. Key market trends, growth factors and opportunities

7.5.2. Market size and forecast, by Telemetry Type

7.5.3. Market size and forecast, by Component

7.5.4. Market size and forecast, by Application

7.5.5. Market size and forecast, by country

7.5.5.1. Brazil

7.5.5.1.1. Market size and forecast, by Telemetry Type

7.5.5.1.2. Market size and forecast, by Component

7.5.5.1.3. Market size and forecast, by Application

7.5.5.2. Argentina

7.5.5.2.1. Market size and forecast, by Telemetry Type

7.5.5.2.2. Market size and forecast, by Component

7.5.5.2.3. Market size and forecast, by Application

7.5.5.3. Rest of Latin America

7.5.5.3.1. Market size and forecast, by Telemetry Type

7.5.5.3.2. Market size and forecast, by Component

7.5.5.3.3. Market size and forecast, by Application

7.6. Middle East and Africa

7.6.1. Key market trends, growth factors and opportunities

7.6.2. Market size and forecast, by Telemetry Type

7.6.3. Market size and forecast, by Component

7.6.4. Market size and forecast, by Application

7.6.5. Market size and forecast, by country

7.6.5.1. South Africa

- 7.6.5.1.1. Market size and forecast, by Telemetry Type
- 7.6.5.1.2. Market size and forecast, by Component
- 7.6.5.1.3. Market size and forecast, by Application
- 7.6.5.2. United Arab Emirates
  - 7.6.5.2.1. Market size and forecast, by Telemetry Type
  - 7.6.5.2.2. Market size and forecast, by Component
  - 7.6.5.2.3. Market size and forecast, by Application
- 7.6.5.3. Egypt
  - 7.6.5.3.1. Market size and forecast, by Telemetry Type
  - 7.6.5.3.2. Market size and forecast, by Component
  - 7.6.5.3.3. Market size and forecast, by Application
- 7.6.5.4. Israel
  - 7.6.5.4.1. Market size and forecast, by Telemetry Type
  - 7.6.5.4.2. Market size and forecast, by Component
  - 7.6.5.4.3. Market size and forecast, by Application
- 7.6.5.5. Rest of Middle East And Africa
  - 7.6.5.5.1. Market size and forecast, by Telemetry Type
  - 7.6.5.5.2. Market size and forecast, by Component
  - 7.6.5.5.3. Market size and forecast, by Application

## **CHAPTER 8: COMPETITIVE LANDSCAPE**

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product mapping of top 10 player
- 8.4. Competitive dashboard
- 8.5. Competitive heatmap
- 8.6. Top player positioning, 2022

## **CHAPTER 9: COMPANY PROFILES**

- 9.1. AstroNova, Inc.
  - 9.1.1. Company overview
  - 9.1.2. Key executives
  - 9.1.3. Company snapshot
  - 9.1.4. Operating business segments
  - 9.1.5. Product portfolio
  - 9.1.6. Business performance
  - 9.1.7. Key strategic moves and developments

## 9.2. BAE Systems

- 9.2.1. Company overview
- 9.2.2. Key executives
- 9.2.3. Company snapshot
- 9.2.4. Operating business segments
- 9.2.5. Product portfolio
- 9.2.6. Business performance
- 9.2.7. Key strategic moves and developments

## 9.3. CASE

- 9.3.1. Company overview
- 9.3.2. Key executives
- 9.3.3. Company snapshot
- 9.3.4. Operating business segments
- 9.3.5. Product portfolio
- 9.3.6. Business performance
- 9.3.7. Key strategic moves and developments

## 9.4. Honeywell International Inc.

- 9.4.1. Company overview
- 9.4.2. Key executives
- 9.4.3. Company snapshot
- 9.4.4. Operating business segments
- 9.4.5. Product portfolio
- 9.4.6. Business performance
- 9.4.7. Key strategic moves and developments

## 9.5. L3Harris Technologies, Inc.

- 9.5.1. Company overview
- 9.5.2. Key executives
- 9.5.3. Company snapshot
- 9.5.4. Operating business segments
- 9.5.5. Product portfolio
- 9.5.6. Business performance
- 9.5.7. Key strategic moves and developments

## 9.6. Orbit Communications Systems

- 9.6.1. Company overview
- 9.6.2. Key executives
- 9.6.3. Company snapshot
- 9.6.4. Operating business segments
- 9.6.5. Product portfolio
- 9.6.6. Business performance

- 9.6.7. Key strategic moves and developments
- 9.7. Safran S.A.
  - 9.7.1. Company overview
  - 9.7.2. Key executives
  - 9.7.3. Company snapshot
  - 9.7.4. Operating business segments
  - 9.7.5. Product portfolio
  - 9.7.6. Business performance
  - 9.7.7. Key strategic moves and developments
- 9.8. Mistral Solutions Pvt. Ltd.
  - 9.8.1. Company overview
  - 9.8.2. Key executives
  - 9.8.3. Company snapshot
  - 9.8.4. Operating business segments
  - 9.8.5. Product portfolio
  - 9.8.6. Business performance
  - 9.8.7. Key strategic moves and developments
- 9.9. Curtiss-Wright Corporation
  - 9.9.1. Company overview
  - 9.9.2. Key executives
  - 9.9.3. Company snapshot
  - 9.9.4. Operating business segments
  - 9.9.5. Product portfolio
  - 9.9.6. Business performance
  - 9.9.7. Key strategic moves and developments
- 9.10. Kongsberg Defence & Aerospace
  - 9.10.1. Company overview
  - 9.10.2. Key executives
  - 9.10.3. Company snapshot
  - 9.10.4. Operating business segments
  - 9.10.5. Product portfolio
  - 9.10.6. Business performance
  - 9.10.7. Key strategic moves and developments

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