

# Global MEMS-Based Inertial Measurement Unit (IMU) Market Growth 2025-2031

<https://marketpublishers.com/r/G8342D0E025DEN.html>

Date: June 2026

Pages: 119

Price: US\$ 3,660.00 (Single User License)

ID: G8342D0E025DEN

## Abstracts

The global MEMS-Based Inertial Measurement Unit (IMU) market size is predicted to grow from US\$ 1571 million in 2025 to US\$ 2153 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

An inertial measurement unit (IMU) is a device that integrates multiple axes, accelerometers, gyroscopes, and other sensors to provide an estimate of the direction of objects in space. Measurements of acceleration, angular velocity and attitude are typical data outputs.

United States market for MEMS-Based Inertial Measurement Unit (IMU) is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for MEMS-Based Inertial Measurement Unit (IMU) is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for MEMS-Based Inertial Measurement Unit (IMU) is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key MEMS-Based Inertial Measurement Unit (IMU) players cover Honeywell

International, Analog Devices, TDK Corporation?, Bosch Sensortec, STMicroelectronics International, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “MEMS-Based Inertial Measurement Unit (IMU) Industry Forecast” looks at past sales and reviews total world MEMS-Based Inertial Measurement Unit (IMU) sales in 2024, providing a comprehensive analysis by region and market sector of projected MEMS-Based Inertial Measurement Unit (IMU) sales for 2025 through 2031. With MEMS-Based Inertial Measurement Unit (IMU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world MEMS-Based Inertial Measurement Unit (IMU) industry.

This Insight Report provides a comprehensive analysis of the global MEMS-Based Inertial Measurement Unit (IMU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MEMS-Based Inertial Measurement Unit (IMU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global MEMS-Based Inertial Measurement Unit (IMU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MEMS-Based Inertial Measurement Unit (IMU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MEMS-Based Inertial Measurement Unit (IMU).

This report presents a comprehensive overview, market shares, and growth opportunities of MEMS-Based Inertial Measurement Unit (IMU) market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Tactical Grade

Civil Grade

**Segmentation by Application:**

Automotive?

Medical?

Aerospace and Defense

Industrial

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Honeywell International

Analog Devices

TDK Corporation?

Bosch Sensortec

STMicroelectronics International

Xsens Technologies

Sensoror

Northrop Grumman LITEF

Silicon Sensing Systems

Murata

MEMSIC

Thales

EMCORE Corporation

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global MEMS-Based Inertial Measurement Unit (IMU) market?

What factors are driving MEMS-Based Inertial Measurement Unit (IMU) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MEMS-Based Inertial Measurement Unit (IMU) market opportunities vary by end market size?

How does MEMS-Based Inertial Measurement Unit (IMU) break out by Type, by Application?

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