

Global MEMS IMU Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global MEMS IMU Sensor market size was valued at US\$ 1245 million in 2025 and is forecast to a readjusted size of US\$ 2508 million by 2032 with a CAGR of 10.5% during review period.

MEMS IMU sensors are motion-sensing devices built on micro-electro-mechanical systems technology that integrate a three-axis accelerometer and a three-axis gyroscope, with some products further adding a magnetometer, temperature compensation, embedded algorithms, or sensor-fusion capability into chip-level, system-in-package, or module-level inertial measurement devices. Their essential role is to continuously output angular rate, linear acceleration, and derived attitude, inclination, heading, or motion-state information when external positioning signals are weak, operating dynamics are complex, or real-time response is critical, thereby enabling action recognition, attitude stabilization, navigation assistance, platform control, and safety redundancy. Based on official product-page positioning, this category has expanded from early consumer applications such as smartphones, wearables, game controllers, and optical image stabilization into industrial robots, drones, construction machinery, surveying equipment, agricultural autopilots, vehicle chassis control, ADAS, navigation in GNSS-denied environments, and aerospace and defense platforms. From a technology perspective, the industry is evolving simultaneously toward higher integration, lower power consumption, stronger vibration and temperature-drift resistance, higher precision, and greater embedded intelligence, spanning both low-power 6-axis IMUs for high-volume consumer markets and high-performance, high-reliability, wide-temperature, low-drift MEMS IMU modules for industrial and tactical scenarios. In delivery terms, the market includes both single-chip and SiP devices for OEM integration and fully calibrated, compensated, interface-ready modules that can be

deployed directly in end equipment, making MEMS IMU sensors a foundational general-purpose component connecting sensing, control, and navigation.

The core logic of the MEMS IMU sensor industry is shifting from that of a single consumer-electronics component toward a foundational motion-sensing platform spanning consumer, automotive, industrial, and defense scenarios. Historically, the largest volume base came from smartphones, wearables, and gaming interaction devices, and leading vendors continue to iterate around low power, small footprint, and high integration. However, based on how official product pages position these devices, the center of gravity has clearly expanded into robots, construction equipment, agricultural autopilots, drones, surveying systems, and automotive electronics, all of which place greater emphasis on stability and reliability. This means MEMS IMUs are no longer merely devices for improving user experience; they are increasingly taking on higher-value functions such as control-loop support, attitude stabilization, navigation assistance, and safety redundancy. As these new scenarios demand stronger temperature-drift control, vibration resistance, wide-temperature performance, long-cycle calibration, and real-time output, both value per unit and customer stickiness have room to rise. Future growth will therefore rely increasingly on application depth rather than pure shipment expansion.

From a technology and competitive-structure perspective, the MEMS IMU industry is upgrading in two directions simultaneously: a high-integration route serving consumer and automotive markets, and a high-performance, high-reliability route serving industrial and tactical applications. The former emphasizes SiP integration, embedded AI, power optimization, and system-level packaging, and representative vendors have already pushed embedded processing, sensor fusion, and scenario recognition capabilities down to the device layer. The latter centers on lower drift, lower noise, wider temperature compensation, factory calibration, and superior SWaP-C performance, with some products explicitly targeting replacement of traditional FOG-grade solutions. At the same time, process technology is not converging into a single path. Silicon MEMS remains the dominant high-volume mainstream, while quartz MEMS and similar approaches retain competitiveness in high-stability segments. As a result, future vendor competition will not be determined solely by point specifications, but increasingly by the full combination of material and process know-how, calibration and compensation capability, embedded algorithms, software toolchains, and system-level validation. The moat of leading companies is therefore likely to deepen further.

From the perspective of regional structure and market outlook, the MEMS IMU industry has both globally distributed supply and globally distributed demand. Europe, Japan,

and the United States still hold advantages in high-end industrial, aerospace-defense, and some core automotive products, while Chinese vendors are rapidly expanding their presence under the combined drivers of automotive intelligence, robotics, and domestic substitution. This is creating a structure in which high-end performance continues to move upward, mid-range applications scale quickly, and regional supply chains become more diversified. On the demand side, multiple growth engines are running in parallel: automotive electronics are being pushed by functional-safety frameworks and in-vehicle sensing needs; industrial automation and robotics are increasing the penetration of medium- to high-precision inertial devices; and unmanned systems plus GNSS-denied navigation are opening higher-ASP opportunities for high-performance MEMS IMUs. Based on external market-research estimates, the MEMS-based IMU market is expected to grow from USD 1.21 billion in 2025 to USD 1.34 billion in 2026, indicating that the industry remains in a relatively fast expansion phase. If leading vendors continue to improve reliability, intelligence, and system-level delivery capability, the sector outlook for the next several years remains constructive.

This report is a detailed and comprehensive analysis for global MEMS IMU Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global MEMS IMU Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS IMU Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS IMU Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MEMS IMU Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MEMS IMU Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MEMS IMU Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, STMicroelectronics, ADI, Honeywell International Inc., Silicon Sensing Systems Ltd, Safran Electronics & Defense, Movella Inc., ACEINNA, Inc., SBG Systems, Memsense LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

MEMS IMU Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Traditional Sensor

High Performance Sensor

Market segment by Delivery Form

Single-Chip Or SiP

OEM Board-Level Module

Sealed Industrial Module

Ruggedized Tactical Unit

Market segment by Product Role

Pure IMU

Fusion IMU

IMU with AHRS

Market segment by Application

Automobile

Medical Equipment

Consumer Electronic

Robot

Drone

Aerospace

Military Industrial

Others

Major players covered

Bosch

STMicroelectronics

ADI

Honeywell International Inc.

Silicon Sensing Systems Ltd

Safran Electronics & Defense

Movella Inc.

ACEINNA, Inc.

SBG Systems

Memsense LLC

Inertial Labs, Inc.

Murata Manufacturing Co., Ltd.

TDK Corporation

Seiko Epson Corporation

Tamagawa Seiki Co., Ltd.

Japan Aviation Electronics Industry, Ltd.

MICROINFINITY Co., Ltd.

QST Corporation

Senodia Technologies (Shaoxing) Co., Ltd.

Forsense (Shanghai) Technology Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

Hebei MT Electronic Technology Co., Ltd.

Guangzhou ASENSING Electronics Technology Co., Ltd.

Sea Land Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe MEMS IMU Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MEMS IMU Sensor, with price, sales quantity, revenue, and global market share of MEMS IMU Sensor from 2021 to 2026.

Chapter 3, the MEMS IMU Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MEMS IMU Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MEMS IMU Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MEMS IMU Sensor.

Chapter 14 and 15, to describe MEMS IMU Sensor sales channel, distributors, customers, research findings and conclusion.

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