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Global Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU) market size was valued at US$ 1282 million in 2025 and is forecast to a readjusted size of US$ 2155 million by 2032 with a CAGR of 7.8% during review period.

Consumer MEMS Inertial Measurement Unit (IMU) integrate multiple sensors onto a single chip using micro-nano fabrication technology, typically including a three-axis accelerometer and a three-axis gyroscope (i.e., a 6-axis IMU). Some high-end models also incorporate a magnetometer (9-axis IMU) to detect an object's linear acceleration, angular velocity, and magnetic field direction. Their core function is to provide motion sensing capabilities for consumer electronics, such as automatic screen rotation on smartphones, motion-based gaming controls, step-counting features, and head pose tracking in AR/VR devices. Compared to industrial or automotive-grade IMUs, consumer-grade products prioritize low power consumption, compact size, and cost-effectiveness, with relatively lower precision requirements that still meet the needs of everyday consumer applications.

In 2024, the global production of Consumer MEMS Inertial Measurement Unit (IMU)reached 1676 million units, with an average selling price of $0.72 per unit.

Technology upgrades drive performance breakthroughs

High precision and low power consumption: With advances in MEMS technology, the noise levels and drift errors of consumer IMUs have been continuously reduced, while dynamic power management technology extends device battery life. For example,

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Bosch's BMI323 IMU maintains high sensitivity even in low-power mode.

Integration and Multi-Sensor Fusion: IMUs are deeply integrated with barometers, geomagnetic sensors, cameras, and other components to form ?sensor fusion? solutions, enhancing the accuracy of navigation, positioning, and environmental perception. For example, Apple's iPhone combines ?LiDAR + IMU? to significantly optimize AR application experiences.

Diversified application scenarios

Extension to smart cars: Consumer IMU technology is gradually penetrating into in-vehicle entertainment systems, such as in-car gesture control and driver fatigue monitoring, and may complement automotive-grade IMUs in the future.

Humanoid robots and industrial automation: MEMS IMUs, due to their low cost and high reliability, are widely used in the joint and balance control of robots such as Tesla Optimus and Boston Dynamics Atlas, becoming a key component in the commercialization of humanoid robots.

This report is a detailed and comprehensive analysis for global Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU) market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units),

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and average selling prices (US$/Unit), 2021-2032

Global Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU)

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 Consumer MEMS Inertial Measurement Unit (IMU) 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, TDK, STMicroelectronics, Senodia, QST Corporation, Silan Microelectronics, etc.

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

Market Segmentation

Consumer MEMS Inertial Measurement Unit (IMU) 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

6-axis

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Others

Market segment by Application

Smartphones

Wearable Devices

Gaming Devices

Others

Major players covered

Bosch

TDK

STMicroelectronics

Senodia

QST Corporation

Silan Microelectronics

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)

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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 Consumer MEMS Inertial Measurement Unit (IMU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Consumer MEMS Inertial Measurement Unit (IMU), with price, sales quantity, revenue, and global market share of Consumer MEMS Inertial Measurement Unit (IMU) from 2021 to 2026.

Chapter 3, the Consumer MEMS Inertial Measurement Unit (IMU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU) 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 Consumer MEMS Inertial Measurement Unit (IMU).

Chapter 14 and 15, to describe Consumer MEMS Inertial Measurement Unit (IMU) sales channel, distributors, customers, research findings and conclusion.

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