

Global Mobile 6-Axis 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 Mobile 6-Axis IMU market size was valued at US\$ 821 million in 2025 and is forecast to a readjusted size of US\$ 1148 million by 2032 with a CAGR of 4.9% during review period.

A mobile 6-axis inertial measurement unit, or IMU, is a MEMS inertial sensor that integrates a 3-axis accelerometer and a 3-axis gyroscope into a single package. Its core role is to continuously output linear acceleration and angular velocity data for smartphones and similar consumer terminals under strict power and size constraints, thereby enabling posture recognition, motion detection, gesture interaction, screen rotation, step counting, context awareness, camera stabilization, and AR and VR tracking. The technical paradigm of this category typically includes low-power MEMS sensing structures, on-chip signal conditioning, programmable full-scale ranges and output data rates, FIFO buffering, interrupt engines, temperature compensation, and, in some models, added support for OIS, pedometer functions, raise-to-wake detection, or sensor-fusion capability. Its main customers include smartphone brands, ODMs and IDHs, TWS and wearable device makers, AR and VR equipment vendors, and other terminal manufacturers that require highly integrated motion sensing. The common delivery form is a single-chip SiP or LGA packaged device, while the prevailing business model centers on chip sales supplemented by drivers, algorithms, reference designs, and long-term supply support to build competitive differentiation.

Mobile 6-axis inertial measurement units have evolved from basic MEMS components into core sensing elements that support continuous motion awareness and posture recognition in smart devices. Their value is no longer limited to providing raw acceleration and angular velocity data, but is increasingly extending toward system-

level sensing capabilities. As smartphones, wearables, and AR and VR devices demand richer interaction experiences, 6-axis IMUs must deliver higher accuracy, lower noise, and greater stability under strict constraints of low power consumption and compact size. At the same time, integrated features such as FIFO, interrupt engines, step counting, and raise-to-wake detection help reduce the processing burden on the host processor. This shift from pure hardware parameter competition to a combination of hardware, algorithms, and application-level capability has effectively raised the technological barrier of the industry, making IMUs a key underlying component for differentiated user experiences. From a competitive perspective, the market shows a dual structure of established global leaders and rapidly advancing Chinese suppliers. Bosch, ST, and TDK maintain strong positions in smartphones and wearables through long-term MEMS expertise, mature product platforms, and global customer relationships, particularly in low-power and high-stability performance. Meanwhile, Chinese companies such as MEMSIC, QST, Senodia, and Silan are gaining traction by offering more flexible interface configurations, higher integration levels, and cost-competitive solutions. Their penetration is especially evident in mid-range devices, TWS products, AR and VR accessories, and IoT terminals. Competition is shifting away from simple parameter benchmarking toward functional integration and system-level capability, and vendors that can better align sensor performance with real application scenarios are more likely to capture incremental market share. From a demand and growth outlook perspective, mobile 6-axis IMUs are supported by a solid foundation for steady expansion. Although smartphone shipment growth has slowed, increasing requirements for image stabilization, spatial interaction, and multi-device coordination are driving higher performance expectations per device. At the same time, the rapid expansion of wearables, TWS earbuds, AR and VR devices, and lightweight robotics is broadening the application scope of 6-axis IMUs beyond smartphones into a wider consumer intelligent hardware ecosystem. Combined with ongoing advances in MEMS processes, packaging technologies, and sensor fusion algorithms, this category is expected to maintain stable growth over the next two years, representing a non-explosive but highly certain sensing component market.

This report is a detailed and comprehensive analysis for global Mobile 6-Axis 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 Mobile 6-Axis IMU market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Mobile 6-Axis 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 Mobile 6-Axis IMU 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 Mobile 6-Axis 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 Mobile 6-Axis 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 Mobile 6-Axis 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 Sensortec GmbH, STMicroelectronics, Murata Manufacturing Co., Ltd., Seiko Epson Corporation, TDK Corporation, Hangzhou Silan Microelectronics Co., Ltd., MEMSIC Semiconductor Co., Ltd., QST Corporation Limited, Senodia Technologies (Shaoxing) Co., Ltd., etc.

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

Market Segmentation

Mobile 6-Axis 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

High Performance IMU

MEMS-based IMU

Market segment by Interface Configuration

I2C Plus SPI Basic Type

I2C Plus SPI Plus I3C Advanced Type

Dual-SPI Extended Type

SPI or UART Industrial Type

Market segment by Performance Orientation

Ultra-Low-Power Type

Low-Noise High-Accuracy Type

Wide-Range High-Dynamic Type

High-Temperature-Stability Type

Market segment by Application

5G Smartphones

4G Smartphones

Major players covered

Bosch Sensortec GmbH

STMicroelectronics

Murata Manufacturing Co., Ltd.

Seiko Epson Corporation

TDK Corporation

Hangzhou Silan Microelectronics Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

QST Corporation Limited

Senodia Technologies (Shaoxing) 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 Mobile 6-Axis IMU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mobile 6-Axis IMU, with price, sales quantity, revenue, and global market share of Mobile 6-Axis IMU from 2021 to 2026.

Chapter 3, the Mobile 6-Axis IMU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mobile 6-Axis 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 Mobile 6-Axis 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 Mobile 6-Axis IMU.

Chapter 14 and 15, to describe Mobile 6-Axis IMU sales channel, distributors, customers, research findings and conclusion.

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