

# **Global 6-Axis and 9-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 6-Axis and 9-Axis IMU market size was valued at US\$ 28193 million in 2025 and is forecast to a readjusted size of US\$ 47829 million by 2032 with a CAGR of 7.8% during review period.

A 6-axis or 9-axis inertial measurement unit is a core motion sensor used to continuously capture linear acceleration, angular velocity, and heading information. A 6-axis unit typically combines a three-axis accelerometer and a three-axis gyroscope, while a 9-axis unit further adds a three-axis magnetometer, or uses external magnetic field data together with fusion algorithms to generate more complete attitude and heading outputs. Based on official product pages, the industry has evolved from simple motion detection devices into a layered market spanning consumer-grade chips, industrial modules, navigation-grade units, and tactical-grade units. Its key capabilities now center on low power consumption, miniaturization, temperature-drift compensation, factory calibration, vibration and shock resistance, sensor fusion, edge intelligence, and multi-interface output. Typical products range from LGA-packaged chips for smartphones, TWS devices, game controllers, XR products, remote controls, and wearables, to sealed modules and attitude-navigation units for robots, drones, construction machinery, automotive systems, surveying, marine applications, and aerospace and defense. Customers include consumer electronics OEMs and solution providers, as well as industrial automation companies, automotive suppliers, unmanned-system developers, and high-end equipment integrators. Common delivery formats now extend from standalone IMU chips to algorithm-enabled IMU modules, integrated IMU and AHRS solutions, and high-precision inertial navigation platforms deeply coupled with GNSS. Commercially, the sector still relies on large-volume standard device shipments, but it is increasingly driven by higher-margin calibration services, algorithm

SDKs, development kits, reference designs, and vertical application-specific solutions. In practice, the competitive focus is shifting from pure sensing performance toward system-level stability, development efficiency, and application deployment speed. This indicates that IMUs are moving from discrete components toward platform-level capability nodes.

Official product pages show that the 6-axis and 9-axis IMU market has already developed a very clear tiered structure. Products aimed at smartphones, earbuds, game controllers, wearables, and XR devices compete primarily on low power consumption, small size, low cost, and fast integration. That is why companies such as ST, Bosch, QST, and MEMSIC emphasize LGA packaging, low current draw, standard digital interfaces, and the migration of motion recognition, step tracking, attitude fusion, and edge algorithms into the device itself. By contrast, products for robots, drones, construction machinery, and surveying and navigation place greater weight on bias stability, temperature compensation, vibration and shock resistance, sealed packaging, and long-term reliability. Vendors such as Murata, Epson, VectorNav, SBG, Honeywell, Collins, and FIBERPRO are no longer providing only sensing chips. They are offering industrial-grade, navigation-grade, and even tactical-grade units that can be connected directly into machine control, attitude estimation, and navigation chains. This shows that the industry has moved beyond simply selling sensors and has become a compound market segmented by accuracy level, operating environment, and system responsibility boundary. As a result, vendor strength can no longer be judged by single-point specifications alone. It must also be evaluated through calibration capability, algorithm maturity, interface ecosystem, development tools, reference designs, and the ability to deliver trustworthy data under vibration, high temperature, shock, magnetic interference, and GNSS-denied conditions. The companies that will truly widen the gap are not merely those that can make 6-axis or 9-axis products first, but those that can embed IMUs into the full control loop of the end system while delivering scalable reliability, verifiable performance boundaries, and lower customer integration costs.

The most important change on the demand side is that the value center of IMUs is shifting from whether they are needed to what performance level, algorithm depth, and application fit they must deliver. Consumer electronics remains the largest volume base. Bosch, ST, QST, and MEMSIC all highlight smartphones, tablets, wearables, gaming devices, and XR in their official application pages, indicating that this market still depends on scale shipments. At the same time, the faster-growing and higher-value opportunities are moving toward robots, drones, construction machinery, automation equipment, and high-precision mobile platforms. Murata directly positions its 6DoF products for autonomous off-highway vehicles, drones, and GNSS-assisted positioning.

HiPNUC applies high-precision inertial solutions to humanoid and quadruped robots. Honeywell positions TARS-IMU for heavy-duty and off-highway transportation automation. Policy is also accelerating demand release. The EU General Safety Regulation has incorporated a range of ADAS-related capabilities into the vehicle safety framework, while the FAA's BVLOS rulemaking is creating institutional space for more advanced drone operations. For IMU vendors, this means that future high-growth opportunities will increasingly come from machine substitution, equipment autonomy, and highly reliable motion sensing in complex environments. Combined with the International Federation of Robotics data on the installed base and deployment structure of factory robots, as well as IDC's view that wrist-worn and XR devices are returning to growth, it is clear that the downstream market for IMUs is not a single track. It is jointly supported by the sheer volume of consumer electronics, the high growth of robots and unmanned systems, the certification-heavy nature of automotive and equipment markets, and the high barriers of surveying and defense. Companies that can cover several of these segments at once will be better positioned to smooth cyclicity and build a more resilient revenue structure.

From the perspective of competition and geographic distribution, the IMU industry is unlikely to become a winner-take-all market. It is more likely to maintain a long-term coexistence of volume competition in the consumer segment and performance competition in the high-end segment. Asia, especially Japan and China, has a high density of suppliers in devices, modules, and manufacturing delivery. Japanese companies retain strong capabilities in high-stability MEMS, quartz devices, and industrial sensors, while Chinese vendors are advancing rapidly in consumer substitution and application adaptation for robots and unmanned systems. German, Swiss, and U.S. companies remain strong in low-power chip platforms, industrial automation, and high-end navigation and aerospace and defense-grade solutions. French and Korean vendors also hold distinctive positions in high-performance MEMS, AHRS, FOG, and integrated navigation. The technology path will not converge into a single route either. Silicon MEMS remains the mainstream foundation, while quartz MEMS, FOG, and FOG-MEMS hybrid approaches will continue to expand into higher-stability and more demanding environments. Overall, as long as robotics, drones, automotive intelligence, industrial digitalization, and advanced equipment continue to upgrade, the IMU sector is likely to remain in a phase where product upgrading outpaces price erosion over the next few years. The outlook is therefore positive, especially for vendors that can provide hardware, algorithms, calibration, and system integration together. These companies can sell not only individual devices or modules, but also use software protocols, development tools, reference designs, industry adaptation, and post-sales validation to convert one-time device transactions into lasting

customer stickiness. As customers place greater emphasis on integration cycle, validation cost, and lifecycle maintainability, competitive barriers will continue shifting upward from hardware specifications toward platform-level delivery capability.

This report is a detailed and comprehensive analysis for global 6-Axis and 9-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 6-Axis and 9-Axis IMU market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 6-Axis and 9-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 6-Axis and 9-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 6-Axis and 9-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 6-Axis and 9-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 6-Axis and 9-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 TDK Corporation, Robert Bosch GmbH, Senodia Technologies, Analog Devices, Inc., Aceinna, Inc., Adafruit Industries LLC, Honeywell International Inc., M5Stack Technology Co., Ltd., MEMSIC Semiconductor Co., Ltd., Murata Manufacturing Co., Ltd., etc.

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

## Market Segmentation

6-Axis and 9-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

6-Axis

9-Axis

### Market segment by Product Role

Pure IMU

IMU with AHRS

IMU with INS

### Market segment by Delivery Form

Chip-Level Device

Board-Level or OEM Module

Sealed Industrial Module

Ruggedized High-End Unit

#### Market segment by Application

Consumption Electronics

Smart Appliances

Drone

IIoT

Robot

Automobile

Others

#### Major players covered

TDK Corporation

Robert Bosch GmbH

Senodia Technologies

Analog Devices, Inc.

Aceinna, Inc.

Adafruit Industries LLC

Honeywell International Inc.

M5Stack Technology Co., Ltd.

MEMSIC Semiconductor Co., Ltd.

Murata Manufacturing Co., Ltd.

STMicroelectronics

Seiko Epson Corporation

Japan Aviation Electronics Industry, Ltd.

Tamagawa Seiki Co., Ltd.

W?rth Elektronik eiSos GmbH & Co. KG

VectorNav Technologies, LLC

Inertial Labs, Inc.

SBG Systems

Silicon Sensing Systems Limited

EMCORE Corporation

FIBERPRO, Inc.

MicroInfinity Co., Ltd.

QST Corporation

HiPNUC

Shaanxi ERICCO Inertial Technology Co., Ltd.

Advanced Wireless & Antenna Inc.

Sea Land Technology Co., Ltd.



WitMotion Shenzhen 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 6-Axis and 9-Axis IMU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 6-Axis and 9-Axis IMU, with price, sales quantity, revenue, and global market share of 6-Axis and 9-Axis IMU from 2021 to 2026.

Chapter 3, the 6-Axis and 9-Axis IMU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 6-Axis and 9-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 6-Axis and 9-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 6-Axis and 9-Axis IMU.

Chapter 14 and 15, to describe 6-Axis and 9-Axis IMU sales channel, distributors, customers, research findings and conclusion.

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