

Global 6-Axis OIS IMUs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6E3243B79BFEN.html>

Date: June 2026

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: G6E3243B79BFEN

Abstracts

According to our (Global Info Research) latest study, the global 6-Axis OIS IMUs market size was valued at US\$ 587 million in 2025 and is forecast to a readjusted size of US\$ 2720 million by 2032 with a CAGR of 24.4% during review period.

A 6-axis OIS IMU is a specialized inertial measurement integrated circuit designed for image stabilization systems, whose core function is to capture minute angular velocity and linear acceleration changes in real time during photography and video recording, and output high-precision, low-latency motion data to optical image stabilization (OIS) and electronic image stabilization (EIS) systems, thereby significantly reducing the impact of hand shake on image quality. Such devices typically integrate a three-axis gyroscope and a three-axis accelerometer, and support parallel coordination with the image processing chain through dedicated data paths or multi-interface architectures. The key technological paradigms focus on low-noise MEMS structural design, temperature drift compensation algorithms, ultra-low-latency data output, and synchronization mechanisms optimized for OIS scenarios. In practical applications, they are widely deployed in smartphones, tablets, action cameras, as well as certain XR devices and high-end imaging systems, primarily serving smartphone OEMs, camera module manufacturers, and imaging algorithm providers. The delivery form is mainly single-chip IMUs, while some vendors also provide supporting drivers and algorithm solutions to enhance system integration efficiency. From a business model perspective, revenue is primarily derived from standard chip sales supplemented by reference designs and tuning services. This category is evolving from general-purpose motion sensing devices toward specialized core components for image stabilization, becoming a fundamental enabler of high-end imaging performance upgrades.

The 6-axis OIS IMU is evolving from a traditional general-purpose inertial sensor into a

specialized core component dedicated to image stabilization systems. Its technological development is clearly centered around low-latency data output, low-noise performance, and system-level coordination capabilities. As smartphone imaging capabilities continue to advance, particularly with the widespread adoption of multi-camera systems and telephoto lenses, even minor device movements are significantly amplified during image capture, placing higher demands on inertial measurement accuracy. This has driven continuous optimization in structural design, algorithm compensation, and interface architecture, gradually transforming OIS IMUs from general sensors into highly customized imaging components that play an increasingly critical role in overall device performance.

From an industry perspective, the market exhibits a strong concentration among leading players. European and Japanese manufacturers dominate due to their advanced MEMS fabrication capabilities and long-standing expertise, with Bosch, STMicroelectronics, and TDK forming the global first tier, possessing end-to-end capabilities from chip design to system optimization. Meanwhile, Chinese companies are rapidly entering this segment, with firms such as Senodia and MEMSIC expanding from basic IMU products into imaging applications and gaining competitiveness in the mid-range market. With increasing demand for domestic substitution and supply chain security, Chinese players are expected to develop differentiated advantages in cost efficiency and customization.

On the demand side, the primary growth driver for 6-axis OIS IMUs remains the smartphone market, although applications are gradually expanding into action cameras, XR devices, and high-end imaging systems. As the convergence of OIS and EIS continues, IMUs are required to deliver higher sampling rates, lower latency, and greater synchronization accuracy, while also enabling tighter integration with ISP and algorithm layers. This will push product evolution toward multi-interface, high-bandwidth, and system-level solutions. Overall, the market is expected to maintain steady growth, representing a high-value semiconductor niche driven by continuous upgrades in end-device performance.

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

Global 6-Axis OIS IMUs 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 OIS IMUs 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 OIS IMUs 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 OIS IMUs

- 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 OIS IMUs 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 Robert Bosch GmbH, STMicroelectronics N.V., TDK Corporation, Senodia Technologies (Shaoxing) Co., Ltd., QST Corporation Limited, 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 OIS IMUs 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

3x3mm

2.5x3mm

Others

Market segment by Data Path Architecture

No Dedicated OIS Path

OIS Dedicated Channel

UI/OIS Separate Channel

Multi-Channel Parallel

Market segment by Integration Level

Pure IMU

IMU + OIS Optimized

IMU + Algorithm

IMU + Controller Collaborative

Market segment by Application

Android Mobile

IOS Mobile

Other Mobile

Major players covered

Robert Bosch GmbH

STMicroelectronics N.V.

TDK Corporation

Senodia Technologies (Shaoxing) Co., Ltd.

QST Corporation Limited

MEMSIC Semiconductor Co., Ltd.

Murata Manufacturing 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 OIS IMUs product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 6-Axis OIS IMUs 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 OIS IMUs 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 OIS IMUs.

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

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