

Global 6-Axis OIS IMUs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 6-Axis OIS IMUs market size is expected to reach \$ 2720 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

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 studies the global 6-Axis OIS IMUs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 6-Axis OIS IMUs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 6-Axis OIS IMUs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 6-Axis OIS IMUs total production and demand, 2021-2032, (Million Units)

Global 6-Axis OIS IMUs total production value, 2021-2032, (USD Million)

Global 6-Axis OIS IMUs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 6-Axis OIS IMUs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 6-Axis OIS IMUs domestic production, consumption, key domestic manufacturers and share

Global 6-Axis OIS IMUs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 6-Axis OIS IMUs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 6-Axis OIS IMUs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 6-Axis OIS IMUs market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 6-Axis OIS IMUs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 6-Axis OIS IMUs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 6-Axis OIS IMUs Market, Segmentation by Type:

3x3mm

2.5x3mm

Others

Global 6-Axis OIS IMUs Market, Segmentation by Data Path Architecture:

No Dedicated OIS Path

OIS Dedicated Channel

UI/OIS Separate Channel

Multi-Channel Parallel

Global 6-Axis OIS IMUs Market, Segmentation by Integration Level:

Pure IMU

IMU + OIS Optimized

IMU + Algorithm

IMU + Controller Collaborative

Global 6-Axis OIS IMUs Market, Segmentation by Application:

Android Mobile

IOS Mobile

Other Mobile

Companies Profiled:

Robert Bosch GmbH

STMicroelectronics N.V.

TDK Corporation

Senodia Technologies (Shaoxing) Co., Ltd.

QST Corporation Limited

MEMSIC Semiconductor Co., Ltd.

Murata Manufacturing Co., Ltd.

Key Questions Answered:

1. How big is the global 6-Axis OIS IMUs market?
2. What is the demand of the global 6-Axis OIS IMUs market?
3. What is the year over year growth of the global 6-Axis OIS IMUs market?

4. What is the production and production value of the global 6-Axis OIS IMUs market?
5. Who are the key producers in the global 6-Axis OIS IMUs market?
6. What are the growth factors driving the market demand?

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