

Global Mobile 6-Axis IMU Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G124421B8A1AEN.html>

Date: June 2026

Pages: 111

Price: US\$ 4,480.00 (Single User License)

ID: G124421B8A1AEN

Abstracts

The global Mobile 6-Axis IMU market size is expected to reach \$ 1148 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

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 studies the global Mobile 6-Axis IMU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile 6-Axis IMU 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 Mobile 6-Axis IMU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mobile 6-Axis IMU total production and demand, 2021-2032, (Million Units)

Global Mobile 6-Axis IMU total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Mobile 6-Axis IMU 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Mobile 6-Axis IMU 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 Mobile 6-Axis IMU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile 6-Axis IMU Market, Segmentation by Type:

High Performance IMU

MEMS-based IMU

Global Mobile 6-Axis IMU Market, Segmentation by Interface Configuration:

I2C Plus SPI Basic Type

I2C Plus SPI Plus I3C Advanced Type

Dual-SPI Extended Type

SPI or UART Industrial Type

Global Mobile 6-Axis IMU Market, Segmentation by Performance Orientation:

Ultra-Low-Power Type

Low-Noise High-Accuracy Type

Wide-Range High-Dynamic Type

High-Temperature-Stability Type

Global Mobile 6-Axis IMU Market, Segmentation by Application:

5G Smartphones

4G Smartphones

Companies Profiled:

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.

Key Questions Answered:

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

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

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