

Global Automotive 6-axis MEMS 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 Automotive 6-axis MEMS IMU market size was valued at US\$ 1059 million in 2025 and is forecast to a readjusted size of US\$ 1739 million by 2032 with a CAGR of 7.3% during review period.

In 2025, global Automotive 6-axis MEMS IMU production reached approximately 245.6 k units with an average global market price of around US\$41.89 per unit. Single-line annual production capacity averages 60 k units with a gross margin of approximately 31-35%. The upstream for the Automotive 6-axis MEMS IMU is concentrated in the automotive semiconductor sector, covering MEMS design, wafer fabrication, and automotive-grade packaging and testing. Downstream, its applications are led by ADAS/AD systems (approximately 40-50%), followed by body control and chassis systems (approximately 25-35%), with cockpit and positioning/communication systems (approximately 15-25%) constituting the remainder. The core demand and business opportunities stem from the stringent requirements for high-precision vehicle state perception in high-level autonomous driving, the mandatory push from active safety regulations, and the deep reliance of new energy vehicles on enhanced chassis dynamic control and precise positioning.

An Automotive 6-axis MEMS IMU is a safety-critical sensor fusion element that integrates a 3-axis accelerometer and a 3-axis gyroscope on a single silicon die, engineered to meet stringent AEC-Q100 reliability standards for operation across the extreme temperature, vibration, and lifespan demands of a vehicle. Its primary role is to provide a high-rate, redundant, and self-contained source of inertial data, which is fundamental for creating a robust and continuous understanding of the vehicle's precise angular orientation and linear motion, especially during critical moments when GNSS

signals are degraded or lost, such as in tunnels, urban canyons, or parking garages. This inertial measurement is the cornerstone for various chassis control and safety systems, including Electronic Stability Control (ESC) to prevent skids, Roll-Over Protection (ROP), and advanced dead-reckoning for navigation, where its low-noise, high-bandwidth data directly informs actuators and control loops. Furthermore, in the context of automated driving, the 6-axis IMU provides the deterministic, low-latency motion data essential for the vehicle's state estimator (EKF/UKF) to maintain an accurate ego-motion model, enabling precise path tracking, sensor fusion with cameras and radar, and safe execution of trajectory control. The inherent integration of both measurement types onto a monolithic MEMS platform not only minimizes board space, weight, and cost—critical factors in automotive design—but also eliminates misalignment errors between axes, a crucial aspect for the integrity of the fused data and the overall performance of the vehicle's dynamic control systems.

The future automotive 6-axis MEMS IMU industry will benefit from the growth in demand for high-precision positioning driven by upgrades in autonomous driving technology. Enterprises need to enhance product performance to meet the stringent requirements of L3 and higher-level autonomous driving for attitude and angular velocity measurement. With the increasing level of automotive electronics, the application of this chip in scenarios such as body control and safety systems will further expand, promoting revenue growth. Intensified industry competition will prompt leading enterprises to increase investment in research and development. For example, XinDongLianKe is advancing the mass production of automotive-grade 6-axis inertial chips to consolidate market position through technological barriers and improve profit margins. Meanwhile, coordinated development across the industrial chain will optimize cost structures, and standardized manufacturing of MEMS processes will help achieve cost reduction at scale, enhancing corporate profitability. Furthermore, the expansion of cross-border applications to fields such as robotics and the low-altitude economy will open new growth points for the industry.

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

Global Automotive 6-axis MEMS 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 Automotive 6-axis MEMS 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 Automotive 6-axis MEMS 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 Automotive 6-axis MEMS 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 Automotive 6-axis MEMS 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 Continental, Analog Devices, Murata, STMicroelectronics, TDK, Bosch, Panasonic Industry, MEMSIC Semiconductor, Guangzhou Asensing Technology, Shanghai QST, etc.

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

Market Segmentation

Automotive 6-axis MEMS 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-DoF

Full-DoF

Others

Market segment by Packaging Type

LGA Package

Others

Market segment by Gyroscope Full-scale Range

?125 dps

?250 dps

?500 dps

?1,000 dps

Market segment by Application

Body Control & Chassis System

ADAS/AD

Positioning & Communication System

Cockpit & Infotainment System

Others

Major players covered

Continental

Analog Devices

Murata

STMicroelectronics

TDK

Bosch

Panasonic Industry

MEMSIC Semiconductor

Guangzhou Asensing Technology

Shanghai QST

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 Automotive 6-axis MEMS IMU product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Automotive 6-axis MEMS 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 Automotive 6-axis MEMS 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 Automotive 6-axis MEMS IMU.

Chapter 14 and 15, to describe Automotive 6-axis MEMS IMU sales channel, distributors, customers, research findings and conclusion.

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