

Global IMU Sensor Module 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 IMU Sensor Module market size was valued at US\$ 28934 million in 2025 and is forecast to a readjusted size of US\$ 51626 million by 2032 with a CAGR of 8.6% during review period.

An IMU Sensor Module (Inertial Measurement Unit Sensor Module) is an integrated motion-sensing device that typically combines an accelerometer, a gyroscope, and sometimes a magnetometer. It is used to measure linear acceleration, angular velocity, and orientation changes in real time, enabling motion tracking and attitude estimation of an object in space. In 2025, global IMU Sensor Module production reached approximately 1,480 M units, with an average global market price of around US\$ 19 per unit. Annual production capacity is 1,620 M units. Gross Profit Margin: 42%. The IMU sensor module industry chain is structured into three main layers: upstream MEMS fabrication, midstream module integration, and downstream application systems. Upstream players focus on MEMS wafers, gyroscopes, and accelerometers, where key materials include silicon wafers, packaging substrates, and precision micro-machining equipment. Midstream manufacturers integrate MEMS chips with signal conditioning, calibration, and software algorithms to form complete IMU modules. Downstream demand is driven by robotics, drones, automotive ADAS, consumer electronics, and aerospace navigation systems, where IMUs are essential for motion sensing and inertial navigation. IMU sensor modules represent a highly scalable but structurally bifurcated industry. The volume segment is dominated by low-cost consumer electronics applications, while the value segment is driven by high-precision industrial, automotive, and defense navigation systems. The long-term growth potential is strongly supported by robotics and autonomous systems, where IMUs are becoming core components for spatial awareness and real-time motion control. However, pricing pressure in consumer

markets and technological barriers in high-end inertial systems create a clear divide between commodity manufacturers and high-value precision suppliers.

This report is a detailed and comprehensive analysis for global IMU Sensor Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Accuracy Grade 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 IMU Sensor Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global IMU Sensor Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global IMU Sensor Module market size and forecasts, by Accuracy Grade and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global IMU Sensor Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 IMU Sensor Module
- 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 IMU Sensor Module 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 Bosch Sensortec, Stmicroelectronics, Tdk Invensense, Murata Manufacturing, Honeywell International, Analog Devices, Northrop Grumman, Safran Electronics & Defense, Thales Group, Trimble Inc, etc.

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

Market Segmentation

IMU Sensor Module market is split by Accuracy Grade and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Accuracy Grade, 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 Accuracy Grade

Low-accuracy IMU

Mid-accuracy IMU

High-accuracy IMU

Tactical/Navigation-grade IMU

Market segment by Sensor Configuration

6-axis IMU

9-axis IMU

10-axis+ IMU

Market segment by Output Interface

I2C IMU

SPI IMU

CAN IMU

Analog IMU

Market segment by Application

Consumer

Industrial

Automotive

Aerospace

Others

Major players covered

Bosch Sensortec

Stmicroelectronics

Tdk Invensense

Murata Manufacturing

Honeywell International

Analog Devices

Northrop Grumman

Safran Electronics & Defense

Thales Group

Trimble Inc

Collins Aerospace

Epson

Sensoror

Innalabs

Navgnss

Norinco Group

Suteng Robotics

Benewake

Comnav Technology

Unicore Communications

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 IMU Sensor Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of IMU Sensor Module, with price, sales quantity, revenue, and global market share of IMU Sensor Module from 2021 to 2026.

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

Chapter 4, the IMU Sensor Module 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 Accuracy Grade and by Application, with sales market share and growth rate by Accuracy Grade, 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 IMU Sensor Module market forecast, by regions, by Accuracy Grade, 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 IMU Sensor Module.

Chapter 14 and 15, to describe IMU Sensor Module sales channel, distributors, customers, research findings and conclusion.

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