

Global IMU Sensor Module Market Growth 2026-2032

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Abstracts

The global IMU Sensor Module market size is predicted to grow from US\$ 27508 million in 2025 to US\$ 50552 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

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.

United States market for IMU Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for IMU Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for IMU Sensor Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key IMU Sensor Module players cover Bosch Sensortec, Stmicroelectronics, Tdk Invensense, Murata Manufacturing, Honeywell International, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?IMU Sensor Module Industry Forecast? looks at past sales and reviews total world IMU Sensor Module sales in 2025, providing a comprehensive analysis by region and market sector of projected IMU Sensor Module sales for 2026 through 2032. With IMU Sensor Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IMU Sensor Module industry.

This Insight Report provides a comprehensive analysis of the global IMU Sensor Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on IMU Sensor Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global IMU Sensor Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IMU Sensor Module and breaks down the forecast by Accuracy Grade, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global IMU Sensor Module.

This report presents a comprehensive overview, market shares, and growth opportunities of IMU Sensor Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Accuracy Grade:

Low-accuracy IMU

Mid-accuracy IMU

High-accuracy IMU

Tactical/Navigation-grade IMU

Segmentation by Sensor Configuration:

6-axis IMU

9-axis IMU

10-axis+ IMU

Segmentation by Output Interface:

I2C IMU

SPI IMU

CAN IMU

Analog IMU

Segmentation by Application:

Consumer

Industrial

Automotive

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global IMU Sensor Module market?

What factors are driving IMU Sensor Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do IMU Sensor Module market opportunities vary by end market size?

How does IMU Sensor Module break out by Accuracy Grade, by Application?

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