

Global IMU Sensor Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IMU Sensor Module market size is expected to reach \$ 51626 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global IMU Sensor Module production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global IMU Sensor Module total production and demand, 2021-2032, (K Units)

Global IMU Sensor Module total production value, 2021-2032, (USD Million)

Global IMU Sensor Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IMU Sensor Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IMU Sensor Module domestic production, consumption, key domestic manufacturers and share

Global IMU Sensor Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IMU Sensor Module production by Accuracy Grade, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IMU Sensor Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IMU Sensor Module 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IMU Sensor Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Accuracy Grade, 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 IMU Sensor Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IMU Sensor Module Market, Segmentation by Accuracy Grade:

Low-accuracy IMU

Mid-accuracy IMU

High-accuracy IMU

Tactical/Navigation-grade IMU

Global IMU Sensor Module Market, Segmentation by Sensor Configuration:

6-axis IMU

9-axis IMU

10-axis+ IMU

Global IMU Sensor Module Market, Segmentation by Output Interface:

I2C IMU

SPI IMU

CAN IMU

Analog IMU

Global IMU Sensor Module Market, Segmentation by Application:

Consumer

Industrial

Automotive

Aerospace

Others

Companies Profiled:

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 Answered:

1. How big is the global IMU Sensor Module market?
2. What is the demand of the global IMU Sensor Module market?
3. What is the year over year growth of the global IMU Sensor Module market?

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

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