

# Global Wearables Inertial Measurement Unit (IMU) Market Growth 2026-2032

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## Abstracts

The global Wearables Inertial Measurement Unit (IMU) market size is predicted to grow from US\$ 241 million in 2025 to US\$ 553 million in 2032; it is expected to grow at a CAGR of 12.2% from 2026 to 2032.

Wearables Inertial Measurement Unit (IMU) is a miniaturized, low-power high-integration sensing module specially designed for wearable smart devices. It integrates MEMS gyroscopes, MEMS accelerometers, and usually magnetometers on a single chip, and is equipped with built-in low-power signal conditioning and data preprocessing algorithms. It can real-time measure and output the three-axis angular velocity, three-axis linear acceleration and spatial magnetic field data of the human body's movement and the wearer's posture, providing core motion sensing data for wearable devices to realize motion detection, posture recognition, health monitoring and human-computer interaction functions. Prices of wearables IMU chips vary by performance tiers. Basic 6-axis MEMS IMU chips for budget fitness trackers cost \$1.5-3; mainstream 6-axis models with low-power algorithms (e.g., Bosch BMI270, TDK ICM-42605) range \$2.5-6, widely used in smartwatches. High-end 9-axis IMU chips integrating magnetometers are \$6-12, for premium smart glasses and professional sports wearables with gesture control and precise motion tracking.

The industrial chain has three core layers. Upstream: Key materials include MEMS silicon wafers, SOI substrates, and ASIC circuits, supplied by TSMC, GlobalFoundries, and Bosch, accounting for ~30% of total costs. Midstream: Dominated by chip design (ADI, ST, TDK InvenSense), manufacturing (SMIC, Xintec), and packaging/testing (JCET Group), with core barriers in MEMS process and low-power calibration algorithms. Downstream: Wearable device manufacturers like Apple, Samsung, and Xiaomi integrate IMU chips into modules, then into end products, with terminal demand

dictating chip performance, miniaturization, and power consumption requirements, forming a tech-upward and demand-downward transmission logic across the chain.

United States market for Wearables Inertial Measurement Unit (IMU) 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 Wearables Inertial Measurement Unit (IMU) 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 Wearables Inertial Measurement Unit (IMU) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Wearables Inertial Measurement Unit (IMU) players cover Bosch, TDK, STMicroelectronics, Murata, Panasonic, 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 "Wearables Inertial Measurement Unit (IMU) Industry Forecast" looks at past sales and reviews total world Wearables Inertial Measurement Unit (IMU) sales in 2025, providing a comprehensive analysis by region and market sector of projected Wearables Inertial Measurement Unit (IMU) sales for 2026 through 2032. With Wearables Inertial Measurement Unit (IMU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Wearables Inertial Measurement Unit (IMU) industry.

This Insight Report provides a comprehensive analysis of the global Wearables Inertial Measurement Unit (IMU) 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 Wearables Inertial Measurement Unit (IMU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wearables Inertial Measurement Unit (IMU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Wearables Inertial Measurement Unit (IMU) and breaks down the forecast by Type, 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 Wearables Inertial Measurement Unit (IMU).

This report presents a comprehensive overview, market shares, and growth opportunities of Wearables Inertial Measurement Unit (IMU) market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

4-axis

6-axis

Others

#### Segmentation by Inertial Sensor Composition:

MEMS-IMU

Non-MEMS-IMU

#### Segmentation by Manufacturing Process:

CMOS IMU

SOC IMU

Others

#### Segmentation by Application:

Smartwatches/Fitness Trackers

Professional Sports Wearables

Health and Medical Wearables

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

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

## Memsic

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Wearables Inertial Measurement Unit (IMU) market?

What factors are driving Wearables Inertial Measurement Unit (IMU) market growth, globally and by region?

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

How do Wearables Inertial Measurement Unit (IMU) market opportunities vary by end market size?

How does Wearables Inertial Measurement Unit (IMU) break out by Type, by Application?

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