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Global Mobile Phones Inertial Measurement Unit (IMU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mobile Phones Inertial Measurement Unit (IMU) market size is expected to reach $ 649 million by 2032, rising at a market growth of 0.9% CAGR during the forecast period (2026-2032).

Mobile Phones Inertial Measurement Unit (IMU) is a highly miniaturized, ultra-low-power and high-integration core sensing module customized for smartphone hardware design. It integrates MEMS triaxial gyroscopes, MEMS triaxial accelerometers (and magnetometers in mainstream models) on a single chip, with built-in high-precision motion data calibration, noise reduction and preprocessing algorithms. It can real-time capture and output the smartphone's spatial motion state, including three-axis angular velocity, three-axis linear acceleration and spatial magnetic field data, providing core sensing support for mobile phones to realize motion sensing, screen control, spatial positioning and interactive experience optimization.Mobile phone IMU chips are priced tiered by product positioning, with price gaps matching different smartphone grades. Entry-level 6-axis models for budget phones, only supporting screen rotation and basic step counting, cost $1.2-2.5 each. Mainstream 6-axis models (e.g., Bosch BMI270, TDK ICM42605), the standard configuration for mid-to-high-end phones with EIS electronic image stabilization and wrist-raise wake-up functions, are priced at $2-5. High-end 9-axis models integrated with magnetometers, tailored for flagship phones to support AR/VR interaction, high-precision navigation and 3D gesture control, cost $4.5-9 each, especially for custom versions of Apple and Samsung.

The industrial chain is divided into three tiers, highly adapted to the miniaturization and low-power demands of mobile phones. Upstream covers core raw materials such as MEMS silicon wafers, SOI substrates and ASIC circuits, with TSMC, GlobalFoundries and Bosch as key suppliers, accounting for about 30% of the total cost. Midstream

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focuses on chip manufacturer, where the core barriers lie in ultra-miniature MEMS processes and low-power calibration algorithms. Downstream includes smartphone manufacturers like Apple, Samsung and Xiaomi, which integrate IMU chips with other sensors for assembly. The interactive upgrade of flagship terminal phones drives the technological iteration of IMU chips.

This report studies the global Mobile Phones Inertial Measurement Unit (IMU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mobile Phones Inertial Measurement Unit (IMU) 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 Mobile Phones Inertial Measurement Unit (IMU) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Mobile Phones Inertial Measurement Unit (IMU) total production and demand, 2021-2032, (K Units)
Global Mobile Phones Inertial Measurement Unit (IMU) total production value, 2021-2032, (USD Million)
Global Mobile Phones Inertial Measurement Unit (IMU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Mobile Phones Inertial Measurement Unit (IMU) consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Mobile Phones Inertial Measurement Unit (IMU) domestic production, consumption, key domestic manufacturers and share
Global Mobile Phones Inertial Measurement Unit (IMU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Mobile Phones Inertial Measurement Unit (IMU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Mobile Phones Inertial Measurement Unit (IMU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Mobile Phones Inertial Measurement Unit (IMU) 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, TDK,

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STMicroelectronics, Murata, Panasonic, Senodia, QST Corporation, Silan Microelectronics, Memsic, 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 Mobile Phones Inertial Measurement Unit (IMU) 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 Type, 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 Mobile Phones Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Type:

4-axis

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6-axis

Others

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Inertial Sensor Composition:

MEMS-IMU

Non-MEMS-IMU

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Manufacturing Process:

CMOS IMU

SOC IMU

Others

Global Mobile Phones Inertial Measurement Unit (IMU) Market, Segmentation by Application:

Entry-level Phones

Mid-range Phones

High-end Phones

Companies Profiled:

Bosch

TDK

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STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

Key Questions Answered:

1. How big is the global Mobile Phones Inertial Measurement Unit (IMU) market?
2. What is the demand of the global Mobile Phones Inertial Measurement Unit (IMU) market?
3. What is the year over year growth of the global Mobile Phones Inertial Measurement Unit (IMU) market?
4. What is the production and production value of the global Mobile Phones Inertial Measurement Unit (IMU) market?
5. Who are the key producers in the global Mobile Phones Inertial Measurement Unit (IMU) market?
6. What are the growth factors driving the market demand?

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