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

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Abstracts

The global Drone Inertial Measurement Unit (IMU) market size is expected to reach $ 503 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

A Drone Inertial Measurement Unit (IMU) is a highly integrated microelectromechanical core sensing chip dedicated to unmanned aerial vehicles, which integrates MEMS gyroscopes, MEMS accelerometers (and magnetometers in mid-to-high-end models) on a single chip/ chip set, and is equipped with built-in signal conditioning, calibration compensation and data preprocessing circuits. It can real-time collect and process the drone’s three-axis angular velocity and three-axis linear acceleration (and spatial magnetic field) data, and output standardized sensing signals to the flight control system, serving as the hardware core of the drone to perceive its motion state and realize attitude control.The prices of drone IMU show a sharp tiered difference based on performance, with a huge gap from consumer to military grade. Consumer-grade MEMS IMU chips are priced at $3-10 each, featuring basic multi-axis sensing, ideal for aerial photography and mini drones. Industrial general-grade chips range from $50-350, with low temperature drift and anti-vibration performance, suitable for inspection and plant protection drones. High-end industrial surveying-grade chips cost $300-900, boasting low zero bias and high dynamic response for aerial mapping and 3D modeling drones. Special military-grade chips are priced at $1,000-50,000; the high-end fiber optic/laser models even exceed $100,000, with reinforced packaging and full temperature range adaptability.

The industrial chain is clearly divided into three tiers with a technology-driven upstream and demand-led downstream logic. Upstream covers core raw materials and wafers, including MEMS silicon wafers, SOI substrates and ASIC circuits, supplied by Bosch,

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TSMC and GlobalFoundries, accounting for about 35% of the total cost. Midstream focuses on chip design, manufacturing and packaging/testing, with leading players like ADI, STMicroelectronics, CoreMEMS and SMIC; the core barriers lie in advanced MEMS processes and high-precision calibration algorithms. Downstream includes IMU module integrators, drone OEMs and flight control system suppliers such as DJI and Yuneec. Terminal enterprises dominate demand selection and pricing gradients, driving the iterative upgrading of midstream chip performance and upstream material innovation.

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

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

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

This report profiles key players in the global Drone Inertial Measurement Unit (IMU) market based on the following parameters - company overview, production, value, price,

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gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch, TDK, 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 Drone 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 Drone Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

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4-axis

6-axis

Others

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

MEMS-IMU

Non-MEMS-IMU

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

CMOS IMU

SOC IMU

Others

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

Consumer Drones

Industrial Drones

Military Drones

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

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