+357 96 030922
info@marketpublishers.com

Global Drone Inertial Measurement Unit (IMU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GC060E5E3EFCEN.html
Date: February 2026
Pages: 103
Price: US$ 3,480.00 (Single User License)
ID: GC060E5E3EFCEN

Abstracts

According to our (Global Info Research) latest study, the global Drone Inertial Measurement Unit (IMU) market size was valued at US$ 307 million in 2025 and is forecast to a readjusted size of US$ 503 million by 2032 with a CAGR of 7.6% during review period.

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

+357 96 030922
info@marketpublishers.com

and demand-led downstream logic. Upstream covers core raw materials and wafers, including MEMS silicon wafers, SOI substrates and ASIC circuits, supplied by Bosch, 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 is a detailed and comprehensive analysis for global Drone Inertial Measurement Unit (IMU) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Drone Inertial Measurement Unit (IMU) market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Drone Inertial Measurement Unit (IMU) market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries

+357 96 030922
info@marketpublishers.com

To assess the growth potential for Drone Inertial Measurement Unit (IMU)
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

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

Market Segmentation

Drone Inertial Measurement Unit (IMU) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

4-axis

6-axis

Others

Market segment by Inertial Sensor Composition

MEMS-IMU

Non-MEMS-IMU

Market segment by Manufacturing Process

+357 96 030922
info@marketpublishers.com

CMOS IMU

SOC IMU

Others

Market segment by Application

Consumer Drones

Industrial Drones

Military Drones

Major players covered

Bosch

TDK

STMicroelectronics

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)

+357 96 030922
info@marketpublishers.com

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Drone Inertial Measurement Unit (IMU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Drone Inertial Measurement Unit (IMU), with price, sales quantity, revenue, and global market share of Drone Inertial Measurement Unit (IMU) from 2021 to 2026.

Chapter 3, the Drone Inertial Measurement Unit (IMU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Drone Inertial Measurement Unit (IMU) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Drone Inertial Measurement Unit (IMU) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Drone Inertial Measurement Unit (IMU).

Chapter 14 and 15, to describe Drone Inertial Measurement Unit (IMU) sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: DISPOSABLE ENDOSCOPE MODULE BY MANUFACTURER

4 CONSUMPTION ANALYSIS BY REGION

5 MARKET SEGMENT BY TYPE

6 MARKET SEGMENT BY APPLICATION

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Drone Inertial Measurement Unit (IMU) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/GC060E5E3EFCEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GC060E5E3EFCEN.html