+357 96 030922
info@marketpublishers.com

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

https://marketpublishers.com/r/GD4DC92AD7CCEN.html
Date: February 2026
Pages: 99
Price: US$ 4,480.00 (Single User License)
ID: GD4DC92AD7CCEN

Abstracts

The global Wearables Inertial Measurement Unit (IMU) market size is expected to reach $ 560 million by 2032, rising at a market growth of 11.5% CAGR during the forecast period (2026-2032).

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

+357 96 030922
info@marketpublishers.com

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

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

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

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

This report profiles key players in the global Wearables 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, STMicroelectronics, Murata, Panasonic, Senodia, QST Corporation, Silan Microelectronics, Memsic, etc.

This report also provides key insights about market drivers, restraints, opportunities,

+357 96 030922
info@marketpublishers.com

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Wearables 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 Wearables Inertial Measurement Unit (IMU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

4-axis

6-axis

Others

+357 96 030922
info@marketpublishers.com

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

MEMS-IMU

Non-MEMS-IMU

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

CMOS IMU

SOC IMU

Others

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

Smartwatches/Fitness Trackers

Professional Sports Wearables

Health and Medical Wearables

Others

Companies Profiled:

Bosch

TDK

STMicroelectronics

+357 96 030922
info@marketpublishers.com

Murata

Panasonic

Senodia

QST Corporation

Silan Microelectronics

Memsic

Key Questions Answered:

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

8 COMPANY PROFILES

+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

I would like to order

Product name: Global Wearables Inertial Measurement Unit (IMU) Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GD4DC92AD7CCEN.html

Price: US$ 4,480.00 (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/GD4DC92AD7CCEN.html