

Global Accelerometer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Accelerometer market size was valued at US\$ 2585 million in 2025 and is forecast to a readjusted size of US\$ 3680 million by 2032 with a CAGR of 5.1% during review period.

Accelerometers are sensors that measure acceleration, which is the rate of change of velocity of an object. In practice, they detect linear acceleration, tilt (relative to gravity), vibration, and shock, and convert these physical motions into electrical signals that can be processed digitally. Modern accelerometers are most commonly built using MEMS (Micro-Electro-Mechanical Systems) technology, making them extremely small, low-power, reliable, and cost-effective.

In 2025, global Accelerometers sales volume reached approximately 3.59 billion units, with an average global market price of around US\$ 0.7 per unit.

1. Expanding Demand from Consumer Electronics and Wearable Devices

The rapid growth of consumer electronics remains a primary driver of the accelerometers market, as smartphones, tablets, smartwatches, fitness trackers, and AR/VR devices increasingly rely on motion sensing for core functionalities.

Accelerometers enable screen rotation, step counting, gesture recognition, activity tracking, gaming interaction, and power management, making them indispensable components in modern smart devices. As device manufacturers continue to pursue thinner designs, longer battery life, and enhanced user experiences, demand for compact, low-power, and highly integrated MEMS accelerometers continues to rise, driving high-volume shipments and sustaining steady market growth.

2. Rising Adoption in Automotive Safety, ADAS, and Vehicle Electrification

Accelerometers play a critical role in automotive safety and control systems, making the automotive sector a strong and structurally growing driver of the market. These sensors are widely used in airbag deployment systems, electronic stability control (ESC), rollover detection, vibration monitoring, and increasingly in advanced driver-assistance systems (ADAS). The transition toward electric vehicles (EVs) and more autonomous driving architectures further amplifies demand, as vehicles integrate a greater number of motion sensors for battery monitoring, chassis control, ride comfort, and inertial sensing. Stricter global vehicle safety regulations and the increasing electronic content per vehicle continue to push long-term accelerometer demand upward.

3. Growth of Industrial Automation, IIoT, and Predictive Maintenance

The acceleration of industrial automation and Industrial Internet of Things (IIoT) adoption is a significant driver for accelerometers, particularly in industrial and infrastructure applications. Accelerometers are widely deployed for vibration monitoring, condition monitoring, and predictive maintenance of motors, pumps, turbines, and heavy machinery, helping operators reduce unplanned downtime and maintenance costs. As manufacturers move toward smart factories and data-driven asset management, demand is increasing for robust, high-reliability accelerometers capable of operating in harsh environments. This shift from reactive to predictive maintenance models is expanding accelerometer usage beyond traditional consumer markets into higher-value industrial segments.

This report is a detailed and comprehensive analysis for global Accelerometer 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 Accelerometer market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Accelerometer 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 Accelerometer 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 Accelerometer 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

To assess the growth potential for Accelerometer

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 Accelerometer 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, NXP Semiconductors, STMicroelectronics, Murata Manufacturing, PCB Piezotronics, Analog Devices, TDK, ROHM Semiconductor, Honeywell, TE Connectivity, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Accelerometer 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

Capacitive

Piezoresistive

Piezoelectric

Others

Market segment by Axis

Single-axis

Dual-axis

Multi-axis

Market segment by Technology

MEMS Accelerometer

Non-MEMS Accelerometer

Market segment by Application

Automotive

Industrial

Consumer Electronics

Aerospace & Defense

Others

Major players covered

Bosch

NXP Semiconductors

STMicroelectronics

Murata Manufacturing

PCB Piezotronics

Analog Devices

TDK

ROHM Semiconductor

Honeywell

TE Connectivity

Kistler

Meggitt Sensing Systems

Memsic

MiraMEMS Sensing Technology

Safran

HBK

Kyowa Electronic Instruments

MT Microsystems

QST Corporation

XDLK Microsystem

Memsensing Microsystems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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 Accelerometer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Accelerometer, with price, sales quantity, revenue, and global market share of Accelerometer from 2021 to 2026.

Chapter 3, the Accelerometer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Accelerometer 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 Accelerometer 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 Accelerometer.

Chapter 14 and 15, to describe Accelerometer sales channel, distributors, customers, research findings and conclusion.

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