

# Global Hall Effect Sensor ICs Market Growth 2025-2031

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## Abstracts

The global Hall Effect Sensor ICs market size is predicted to grow from US\$ 2427 million in 2025 to US\$ 3303 million in 2031; it is expected to grow at a CAGR of 5.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A Hall effect sensor IC is a device that is used to measure the magnitude of a magnetic field. Its output voltage is directly proportional to the magnetic field strength through it. Hall effect sensors are used for proximity sensing, positioning, speed detection, and current sensing applications.

The industry concentration is high, and the main enterprises are concentrated in Europe, United States and Japan. Allegro MicroSystem, Infineon, Asahi Kasei Microdevices, TDK, NXP, etc. are in a dominant position in global market, forming the first echelon in the market competition of Magnetic Sensing Chips in the world.

The growth of Hall sensor chips is primarily driven by demand from automotive electronics (e.g., motor control, position sensing), industrial automation (e.g., BLDC motors, robotics), and consumer electronics (e.g., smartphone flip detection), along with the expansion of renewable energy (e.g., EVs, charging stations) and smart home applications.

Future trends include higher integration (e.g., embedded signal processing), low-power designs (for IoT devices), smarter functionalities (e.g., digital output with self-

calibration), and enhanced reliability for extreme conditions in automotive and industrial sectors.

LP Information, Inc. (LPI) ' newest research report, the “Hall Effect Sensor ICs Industry Forecast” looks at past sales and reviews total world Hall Effect Sensor ICs sales in 2024, providing a comprehensive analysis by region and market sector of projected Hall Effect Sensor ICs sales for 2025 through 2031. With Hall Effect Sensor ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hall Effect Sensor ICs industry.

This Insight Report provides a comprehensive analysis of the global Hall Effect Sensor ICs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hall Effect Sensor ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hall Effect Sensor ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hall Effect Sensor ICs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hall Effect Sensor ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of Hall Effect Sensor ICs market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

InSb-based Hall Effect Sensor ICs

GaAs-based Hall Effect Sensor ICs

InAs-based Hall Effect Sensor ICs

Si-based Hall Effect Sensor ICs

Others-based Hall Effect Sensor ICs

**Segmentation by Application:**

Automotive and Transportation

Consumer Electronics

Industrial and Energy

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Allegro MicroSystem

Melexis

Infineon

TDK

Asahi Kasei Microdevices

ams OSRAM

NXP

Diodes

Texas Instruments

Suzhou Novosense Microelectronics

Shanghai Orient-Chip Technology

Honeywell

Semiment Technology

Cosemitech

Senksemi-electronics

CrossChip Microsystems

MEMSIC Semiconductor

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Hall Effect Sensor ICs market?

What factors are driving Hall Effect Sensor ICs market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hall Effect Sensor ICs market opportunities vary by end market size?

How does Hall Effect Sensor ICs break out by Type, by Application?

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