

Global Geomagnetic Navigation Sensors Market Growth 2025-2031

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Abstracts

The global Geomagnetic Navigation Sensors market size is predicted to grow from US\$ 4644 million in 2025 to US\$ 6253 million in 2031; it is expected to grow at a CAGR of 5.1% 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.

Geomagnetic navigation sensors are devices that detect and measure the Earth's magnetic field to enable magnetic-based navigation, especially in environments where GPS is unavailable or unreliable. These sensors include technologies such as fluxgate magnetometers, Hall effect sensors, and magnetoresistive sensors (e.g., AMR, GMR, TMR), each offering different levels of sensitivity, power consumption, and miniaturization. By sensing magnetic field strength and direction, they allow systems like drones, robots, vehicles, and wearable devices to determine heading, orientation, or location relative to the Earth's magnetic field. Often integrated into inertial navigation systems (INS) or combined with other sensors (e.g., accelerometers, gyroscopes), these magnetic sensors play a key role in enabling stable, precise navigation in indoor, underground, or GPS-denied environments.

United States market for Geomagnetic Navigation Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Geomagnetic Navigation Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Geomagnetic Navigation Sensors is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Geomagnetic Navigation Sensors players cover Allegro Microsystems, Honeywell, NXP Semiconductors, Melexis, Analog Devices, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

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

This Insight Report provides a comprehensive analysis of the global Geomagnetic Navigation Sensors 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 Geomagnetic Navigation Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Geomagnetic Navigation Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Geomagnetic Navigation Sensors 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 Geomagnetic Navigation Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Geomagnetic Navigation Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Fluxgate Magnetometers

Hall-Effect Sensors

Magneto-resistive (MR) Sensors

Optically Pumped Magnetometers

Proton Precession Magnetometers

Others

Segmentation by Application:

Aerospace & Defense

Consumer Electronics

Automotive

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 Microsystems

Honeywell

NXP Semiconductors

Melexis

Analog Devices

TDK

ROHM Semiconductor

STMicroelectronics

Infineon Technologies

Bosch Sensortec

Asahi Kasei Microdevices

ams OSRAM

Texas Instruments

Diodes

Alps Alpine

Novosense Microelectronics

Xinjin Electronics

Shanghai Orient-Chip Technology

Memsic SEMICONDUCTOR

Key Questions Addressed in this Report

What is the 10-year outlook for the global Geomagnetic Navigation Sensors market?

What factors are driving Geomagnetic Navigation Sensors market growth, globally and by region?

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

How do Geomagnetic Navigation Sensors market opportunities vary by end market size?

How does Geomagnetic Navigation Sensors break out by Type, by Application?

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