

Global Semiconductor AMR Magnetic Angle Sensors Market Growth 2026-2032

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Abstracts

The global Semiconductor AMR Magnetic Angle Sensors market size is predicted to grow from US\$ 117 million in 2025 to US\$ 183 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

In 2025, global sales of Semiconductor AMR Magnetic Angle Sensor reached approximately 150 million units, with an average market price of about USD 0.8 per unit, an annual production capacity of roughly 210 million units, and an industry-average gross margin of approximately 35%.

A Semiconductor AMR magnetic angle sensor is a type of magnetic position sensor that exploits the anisotropic magnetoresistance (AMR) effect. Using on-chip AMR resistor arrays, it senses changes in the direction of an external magnetic field and converts the relative angle of a rotating magnet (or field) into an analog or digital output representing 0–360° (or a limited angular span). Compared with conventional Hall-based angle sensors, AMR solutions provide higher sensitivity and better angle linearity at moderate field strengths, enabling high-accuracy, non-contact, wear-free angle measurement with small air gaps. Typical applications include steering-angle sensing, pedal and throttle position, motor rotor position, rotary knobs and encoders.

Upstream, Semiconductor AMR magnetic angle sensors depend on foundries (CMOS/BCD processes), AMR thin-film and magnetoresistive material processing, assembly & test houses, and permanent-magnet suppliers, as well as EDA/IP tools and automotive/industrial qualification infrastructure. In the midstream, chip design and manufacturing companies integrate AMR arrays with signal-conditioning circuitry, perform wafer fabrication and packaging, and supply products as bare die, standard IC packages or magnet-integrated modules. Downstream, the sensors are integrated by

automotive electronics manufacturers (steering, pedal, transmission), industrial automation and motor-drive vendors, and appliance/consumer-electronics makers. Actual consumption is tightly linked to vehicle production, shipments of motors and servo drives, and penetration of smart appliances and tools, with the sensors typically installed once per device and consumed rigidly with end-equipment shipments.

United States market for Semiconductor AMR Magnetic Angle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Semiconductor AMR Magnetic Angle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Semiconductor AMR Magnetic Angle Sensors is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Semiconductor AMR Magnetic Angle Sensors players cover Murata Manufacturing, TI, ADI, TE, Infineon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Semiconductor AMR Magnetic Angle Sensors Industry Forecast" looks at past sales and reviews total world Semiconductor AMR Magnetic Angle Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Semiconductor AMR Magnetic Angle Sensors sales for 2026 through 2032. With Semiconductor AMR Magnetic Angle Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor AMR Magnetic Angle Sensors industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor AMR Magnetic Angle 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 Semiconductor AMR Magnetic Angle Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor AMR Magnetic Angle Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-axis

Multi-axis

Segmentation by Output:

Analog

Digital

Segmentation by Application:

Automotive Electronics

Industrial Automation

Consumer Electronics

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.

Murata Manufacturing

TI

ADI

TE

Infineon

NXP

MEMSIC

MultiDimension Technology

Suzhou Novosense

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor AMR Magnetic Angle Sensors market?

What factors are driving Semiconductor AMR Magnetic Angle Sensors market growth, globally and by region?

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

How do Semiconductor AMR Magnetic Angle Sensors market opportunities vary by end market size?

How does Semiconductor AMR Magnetic Angle Sensors break out by Type, by Application?

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