

Global Magnetic Angle Encoder IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Angle Encoder IC market size is expected to reach \$ 413 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

A Magnetic Angle Encoder IC is a type of integrated circuit used to measure the angular position of a rotating object (such as a motor shaft) using magnetic sensing technology. It converts the mechanical angular motion into an electrical signal that can be read by microcontrollers or control systems for precise motion control.

In 2025, global Magnetic Angle Encoder IC sales volume reached approximately 94.6 million units, with an average global market price of around US\$ 2.77 per unit.

The Magnetic Angle Encoder IC market is undergoing robust growth, driven by the global rise in industrial automation, the increasing adoption of electric vehicles (EVs), and the expanding use of robotics and smart consumer electronics. Magnetic encoder ICs are essential components in systems that require accurate motion sensing, rotational angle measurement, and position feedback, offering advantages like contactless operation, high reliability, and resistance to harsh environmental conditions.

Magnetic Angle encoder ICs use magnetic field sensing technology—primarily Hall-effect, AMR (anisotropic magnetoresistive), or TMR (tunneling magnetoresistive) sensors—to detect the angular or linear position of a rotating or moving object. These ICs measure changes in the magnetic field generated by a nearby magnet and convert them into a digital or analog output that represents position, speed, or direction. Common output formats include analog sine/cosine, PWM, SPI, I²C, or ABZ quadrature signals.

1. Rapid Growth in Industrial Automation

The global push toward Industry 4.0 and smart factories is significantly increasing demand for magnetic encoder ICs. These ICs are widely used in servo motors, robotic joints, conveyors, and CNC machinery for real-time position and motion feedback. Compared to optical encoders, magnetic variants are more robust and suitable for industrial environments filled with dust, oil, and vibration.

2. Electrification of Transportation

The automotive sector, particularly the EV segment, is a major driver of magnetic encoder IC demand. These encoders are essential in:

Automotive-grade magnetic encoders offer benefits like wide temperature ranges, high EMC immunity, and compact footprints, making them ideal for integration into modern vehicle platforms.

3. Miniaturization and Integration

To meet the space constraints of wearables, medical devices, consumer electronics, and mobile robotics, manufacturers are producing miniature encoder ICs that integrate signal processing, zero-position programming, self-calibration, and digital interfaces. This trend is accelerating adoption in areas where space and power efficiency are crucial.

This report studies the global Magnetic Angle Encoder IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnetic Angle Encoder IC 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 Magnetic Angle Encoder IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnetic Angle Encoder IC total production and demand, 2021-2032, (K Units)

Global Magnetic Angle Encoder IC total production value, 2021-2032, (USD Million)

Global Magnetic Angle Encoder IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Magnetic Angle Encoder IC consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetic Angle Encoder IC domestic production, consumption, key

domestic manufacturers and share

Global Magnetic Angle Encoder IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Magnetic Angle Encoder IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Magnetic Angle Encoder IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Magnetic Angle Encoder IC 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 Allegro MicroSystems, ams OSRAM, Melexis, Broadcom, iC-Haus GmbH, Asahi Kasei Microdevices, TE Connectivity, Magntek, MultiDimension Technology, Semiment Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Magnetic Angle Encoder IC 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 Magnetic Angle Encoder IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Angle Encoder IC Market, Segmentation by Type:

Magnetoresistive Type

Hall Type

Global Magnetic Angle Encoder IC Market, Segmentation by Measurement Method:

Absolute Angle Encoder IC

Incremental Magnetic Encoder IC

Global Magnetic Angle Encoder IC Market, Segmentation by Technology:

AMR

GMR

TMR

Other

Global Magnetic Angle Encoder IC Market, Segmentation by Application:

Automotive

Medical

Industrial Equipment

Consumer Electronics

Other

Companies Profiled:

Allegro MicroSystems

ams OSRAM

Melexis

Broadcom

iC-Haus GmbH

Asahi Kasei Microdevices

TE Connectivity

Magntek

MultiDimension Technology

Semiment Technology

Alpha Electronics

Key Questions Answered:

1. How big is the global Magnetic Angle Encoder IC market?
2. What is the demand of the global Magnetic Angle Encoder IC market?
3. What is the year over year growth of the global Magnetic Angle Encoder IC market?
4. What is the production and production value of the global Magnetic Angle Encoder IC market?

5. Who are the key producers in the global Magnetic Angle Encoder IC market?
6. What are the growth factors driving the market demand?

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