

Global Magnetic and Optical Encoder ICs Market Growth 2025-2031

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Abstracts

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The global Magnetic and Optical Encoder ICs market size is predicted to grow from US\$ 526 million in 2025 to US\$ 749 million in 2031; it is expected to grow at a CAGR of 6.1% from 2025 to 2031.

An encoder is a sensing device that provides feedback. Encoders convert motion to an electrical signal that can be read by some type of control device in a motion control system, such as a counter or PLC. The encoder sends a feedback signal that can be used to determine position, count, speed, or direction. A control device can use this information to send a command for a particular function.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They

drive the growing demand for discrete power devices.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic and Optical Encoder 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 Magnetic and Optical Encoder ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnetic and Optical Encoder ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Magnetic Encoder ICs

Optical Encoder ICs

Segmentation by Application:

Medical Equipment

Machine Tools

Consumer Electronics

Assembly Equipment

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.

Broadcom

AMS

New Japan Radio

TE Connectivity

IC-Haus

SEIKO NPC

RLS

PREMA Semiconductor

Hamamatsu

Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnetic and Optical Encoder ICs market?

What factors are driving Magnetic and Optical Encoder ICs market growth, globally and by region?

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

How do Magnetic and Optical Encoder ICs market opportunities vary by end market size?

How does Magnetic and Optical Encoder ICs break out by Type, by Application?

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