

Global Encoder ICs Market Growth 2026-2032

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Abstracts

The global Encoder ICs market size is predicted to grow from US\$ 1172 million in 2025 to US\$ 1837 million in 2032; it is expected to grow at a CAGR of 6.9% from 2026 to 2032.

Encoder ICs are dedicated integrated circuits that convert mechanical motion?such as rotary angle, linear displacement, speed, and direction?into readable electrical outputs for controllers and drive systems. Typical functions include sensing front-end integration, signal conditioning, A/D conversion, angle/position calculation, compensation, and output through interfaces such as ABI, UVW, SPI, SSI, I²C, PWM, SENT, or Sin/Cos. In 2025, global Encoder ICs production reached approximately 505.55 M Units. The upstream of the Encoder ICs industry includes wafer fabrication and packaging, mixed-signal IP, magnets and magnetic materials, PCB coil structures, optical code wheels or metallic targets, and supporting components such as MCUs, motor drivers, and connectors. Downstream, one path leads to encoder module manufacturers and motor-feedback module suppliers that combine the IC with magnets, scales, targets, housings, and cables into finished encoders; the other path leads directly to servo drives, automotive Tier 1s, robot joint makers, appliance OEMs, and industrial equipment companies that embed the IC at board level. A key trend is the shift from buying complete encoder modules toward board-level integration using ?IC + magnet/coil + software,? which is increasing the strategic value of Encoder IC suppliers.

The Encoder ICs market is moving from conventional position-sensing components toward highly integrated, high-accuracy, digitally interfaced solutions. Compared with complete encoder modules, Encoder ICs are increasingly embedded directly into motor drives, automotive control units, robot joint modules, and industrial control boards. As a result, market demand is being driven less by standalone encoder shipments and more by broader electrification and motion-control trends.

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

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

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

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

Segmentation by Type:

Magnetic Encoder Ics

Inductive Encoder Ics

Optical Encoder ASICs

Others

Segmentation by Output Type:

Absolute Encoder Ics

Incremental Encoder Ics

Segmentation by Motion Form:

Rotary Encoder Ics

Linear Encoder Ics

Arc / Partial-Angle Ics

Segmentation by Interface Type:

ABI / ABZ Incremental Output Encoder ICs

SPI / SSI / I²C Absolute Digital Encoder ICs

PWM / SENT Encoder ICs

Sin/Cos Analog Output Encoder ICs

Segmentation by Application:

Automotive

Industrial Motor & Servo

Robotics

Consumer & HMI

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.

TE Connectivity

ams OSRAM

Melexis

Allegro MicroSystems

Renesas

Onsemi

Broadcom

Magntek

SEIKO NPC

RLS (Renishaw)

MultiDimension Technology

IC-Haus

Asahi Kasei Microdevices

SEMIMENT

Zhongke Alpha Electronic Technology

MEMSIC

Zhenhua Fengguang

Key Questions Addressed in this Report

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

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

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

How do Encoder ICs market opportunities vary by end market size?

How does Encoder ICs break out by Type, by Application?

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