

Global Encoder ICs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Encoder ICs market size was valued at US\$ 1233 million in 2025 and is forecast to a readjusted size of US\$ 1888 million by 2032 with a CAGR of 6.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Encoder ICs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Encoder ICs market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Encoder ICs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Encoder ICs market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Encoder ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Encoder ICs

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Encoder ICs market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product

portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TE Connectivity, ams OSRAM, Melexis, Allegro MicroSystems, Renesas, Onsemi, Broadcom, Magntek, SEIKO NPC, RLS (Renishaw), etc.

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

Market Segmentation

Encoder ICs market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Magnetic Encoder Ics

Inductive Encoder Ics

Optical Encoder ASICs

Others

Market segment by Output Type

Absolute Encoder Ics

Incremental Encoder Ics

Market segment by Motion Form

Rotary Encoder Ics

Linear Encoder Ics

Arc / Partial-Angle Ics

Market segment 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

Market segment by Application

Automotive

Industrial Motor & Servo

Robotics

Consumer & HMI

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Encoder ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Encoder ICs, with price, sales quantity, revenue, and global market share of Encoder ICs from 2021 to 2026.

Chapter 3, the Encoder ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Encoder ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Encoder ICs market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Encoder ICs.

Chapter 14 and 15, to describe Encoder ICs sales channel, distributors, customers, research findings and conclusion.

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