

Global Encoder ICs Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G399E1EE90FAEN.html>

Date: May 2026

Pages: 142

Price: US\$ 4,480.00 (Single User License)

ID: G399E1EE90FAEN

Abstracts

The global Encoder ICs market size is expected to reach \$ 1888 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

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, I?C, 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 studies the global Encoder ICs production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Encoder ICs total production and demand, 2021-2032, (Million Units)

Global Encoder ICs total production value, 2021-2032, (USD Million)

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

Global Encoder ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Encoder ICs domestic production, consumption, key domestic manufacturers and share

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

Global Encoder ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Encoder ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Encoder ICs 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Encoder ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Encoder ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Encoder ICs Market, Segmentation by Type:

Magnetic Encoder Ics

Inductive Encoder Ics

Optical Encoder ASICs

Others

Global Encoder ICs Market, Segmentation by Output Type:

Absolute Encoder Ics

Incremental Encoder Ics

Global Encoder ICs Market, Segmentation by Motion Form:

Rotary Encoder Ics

Linear Encoder Ics

Arc / Partial-Angle Ics

Global Encoder ICs Market, 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

Global Encoder ICs Market, Segmentation by Application:

Automotive

Industrial Motor & Servo

Robotics

Consumer & HMI

Others

Companies Profiled:

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 Answered:

1. How big is the global Encoder ICs market?
2. What is the demand of the global Encoder ICs market?
3. What is the year over year growth of the global Encoder ICs market?

4. What is the production and production value of the global Encoder ICs market?
5. Who are the key producers in the global Encoder ICs market?
6. What are the growth factors driving the market demand?

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