

# Global Position Encoding Chip Market Growth 2026-2032

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## Abstracts

The global Position Encoding Chip market size is predicted to grow from US\$ 857 million in 2025 to US\$ 1330 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

A position encoding chip is a special-purpose integrated circuit (ASIC) used to convert the linear or rotational displacement of an object into recognizable electrical or digital signals. It is typically used in conjunction with a rotary encoder or linear encoder. This chip acquires, decodes, and processes pulse, quadrature, or absolute code signals output from sensing elements to accurately calculate motion parameters such as position, direction, and velocity, and outputs these parameters to the control system via parallel, serial, or bus interfaces. Position encoding chips are widely used in servo motor control, industrial automation, robotics, CNC machine tools, and precision instruments—any application requiring high-precision position feedback.

The position coding chip industry chain is mainly divided into three segments: upstream, midstream, and downstream. The upstream segment primarily consists of semiconductor basic resources such as silicon wafers, analog/digital IP, packaging materials, wafer foundry, and packaging testing, while also involving sensing-related materials and devices for magnetic, electrical, and optical sensing. The midstream segment involves the design and manufacturing of position coding chips, covering the integration and mass production of analog front-ends, signal conditioning, orthogonal/absolute encoding/decoding algorithms, and interface circuits (SPI, SSI, BiSS, ABI, etc.). The downstream segment focuses on applications and system integration. Chips are typically combined with rotary or linear encoders and are widely used in servo motors, industrial automation equipment, robots, CNC machine tools, new energy equipment, and precision instruments, requiring high precision, reliability, and

real-time performance.

In 2025, the average price of position coding chips was \$9 per chip, with sales of 97.33 million chips, a production capacity of 139.04 million chips, and a gross profit margin of approximately 38%.

United States market for Position Encoding Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Position Encoding Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Position Encoding Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Position Encoding Chip players cover ams OSRAM, Allegro MicroSystems, Infineon Technologies, Melexis, NXP Semiconductors, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Position Encoding Chip 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 Position Encoding Chip.

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

Segmentation by Type:

Analog Signal Output Type

Digital Signal Output Type

Segmentation by Encoding Method:

Incremental Position Encoding Chip

Absolute Position Encoding Chip

Segmentation by Measurement Object:

Rotary Position Encoding Chip

Linear Position Encoding Chip

Segmentation by Application:

Industrial Automation

Automotive Industry

Home Appliances & Consumer Electronics

Energy & Power

Medical Equipment

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.

ams OSRAM

Allegro MicroSystems

Infineon Technologies

Melexis

NXP Semiconductors

TDK-Micronas

iC-Haus

Analog Devices

Texas Instruments

Renesas Electronics

Broadcom

ROHM Semiconductor

Toshiba

STMicroelectronics

Microchip Technology

MagnTek

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Position Encoding Chip market?

What factors are driving Position Encoding Chip market growth, globally and by region?

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

How do Position Encoding Chip market opportunities vary by end market size?

How does Position Encoding Chip break out by Type, by Application?

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