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Global Position Encoding Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Position Encoding Chip market size is expected to reach $ 1369 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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.

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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%.

This report studies the global Position Encoding Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Position Encoding Chip total production and demand, 2021-2032, (K Pcs)

Global Position Encoding Chip total production value, 2021-2032, (USD Million)

Global Position Encoding Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Position Encoding Chip consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Position Encoding Chip domestic production, consumption, key domestic manufacturers and share

Global Position Encoding Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Position Encoding Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Position Encoding Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Position Encoding Chip market based on

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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 ams OSRAM, Allegro MicroSystems, Infineon Technologies, Melexis, NXP Semiconductors, TDK-Micronas, iC-Haus, Analog Devices, Texas Instruments, Renesas Electronics, 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 Position Encoding Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Pcs) and average price (US$/Pcs) 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 Position Encoding Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Position Encoding Chip Market, Segmentation by Type:

Analog Signal Output Type

Digital Signal Output Type

Global Position Encoding Chip Market, Segmentation by Encoding Method:

Incremental Position Encoding Chip

Absolute Position Encoding Chip

Global Position Encoding Chip Market, Segmentation by Measurement Object:

Rotary Position Encoding Chip

Linear Position Encoding Chip

Global Position Encoding Chip Market, Segmentation by Application:

Industrial Automation

Automotive Industry

Home Appliances & Consumer Electronics

Energy & Power

Medical Equipment

Companies Profiled:

ams OSRAM

Allegro MicroSystems

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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 Answered:
1. How big is the global Position Encoding Chip market?
2. What is the demand of the global Position Encoding Chip market?
3. What is the year over year growth of the global Position Encoding Chip market?
4. What is the production and production value of the global Position Encoding Chip market?
5. Who are the key producers in the global Position Encoding Chip market?
6. What are the growth factors driving the market demand?

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