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Global Resolver-to-Digital Converters (RDC) for Automotive Market Growth 2026-2032

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Abstracts

The global Resolver-to-Digital Converters (RDC) for Automotive market size is predicted to grow from US$ 89.08 million in 2025 to US$ 187 million in 2032; it is expected to grow at a CAGR of 11.2% from 2026 to 2032.

In 2025, global resolver-to-digital converters (RDC) for automotive production reached approximately 25300 k units, the average price is 2.6 usd/unit.The resolver-to-digital converters (RDC) for automotive is the core sensor device in the electric drive system of new energy vehicles. It is responsible for accurately converting the analog sine and cosine signals generated by the resolver into high-resolution digital signals that can be processed by the microprocessor, thus realizing accurate control of the motor position and speed.

At present, driven by the rapid development of new energy automobile industry, there is a strong demand for resolver-to-digital converters (RDC) for automotive, and its core driving force comes from the extreme pursuit of motor position detection accuracy and reliability by electric drive system, as well as the urgent demand for independent and controllable supply chain. This brings huge market opportunities, not only reflected in the stock market that continues to expand with the growth of electric vehicle sales, but also in the huge window period for domestic chips to achieve technological breakthroughs and replace overseas monopoly products. Local manufacturers will take the lead in this high-growth track if they can overcome AEC-Q100 certification, meet long-term reliability requirements in harsh environments such as high temperature and vibration, and enter the mainstream supply chain with cost and service advantages.

The annual production capacity of resolver-to-digital converters (RDC) for automotive on a gross profit margin of around 30-35%.

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The downstream consumption of resolver-to-digital converters (RDC) for automotive is as follows: commercial vehicles 25%, passenger vehicles 75%.

United States market for Resolver-to-Digital Converters (RDC) for Automotive 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 Resolver-to-Digital Converters (RDC) for Automotive 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 Resolver-to-Digital Converters (RDC) for Automotive is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Resolver-to-Digital Converters (RDC) for Automotive players cover Renesas, Texas Instruments, Analog Devices, Inc., Tamagawa Seiki, Lianyungang Jariec Electronics, 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 “Resolver-to-Digital Converters (RDC) for Automotive Industry Forecast” looks at past sales and reviews total world Resolver-to-Digital Converters (RDC) for Automotive sales in 2025, providing a comprehensive analysis by region and market sector of projected Resolver-to-Digital Converters (RDC) for Automotive sales for 2026 through 2032. With Resolver-to-Digital Converters (RDC) for Automotive sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Resolver-to-Digital Converters (RDC) for Automotive industry.

This Insight Report provides a comprehensive analysis of the global Resolver-to-Digital Converters (RDC) for Automotive 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 Resolver-to-Digital Converters (RDC) for Automotive portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Resolver-to-Digital Converters (RDC) for Automotive market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Resolver-to-Digital Converters (RDC) for Automotive and breaks down the forecast by Theory, 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 Resolver-to-Digital Converters (RDC) for Automotive.

This report presents a comprehensive overview, market shares, and growth opportunities of Resolver-to-Digital Converters (RDC) for Automotive market by product type, application, key manufacturers and key regions and countries.

Segmentation by Theory:

Analog Decoder Chip

Digital Decoder Chip

Segmentation by Integration:

Single-chip Decoding

Split-type Decoder

Segmentation by Precision:

High Precision Decoder Chip

Standard Precision Decoder Chip

Segmentation by Arithmetic:

Cosine Decoding

Switch Decoding

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Segmentation by Application:

- Commercial Vehicle
- Passenger Vehicle

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

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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.

Renesas

Texas Instruments

Analog Devices, Inc.

Tamagawa Seiki

Lianyungang Jariec Electronics

Beijing Semidrive Technology

Shanghai Xinchi Technology

Key Questions Addressed in this Report

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What is the 10-year outlook for the global Resolver-to-Digital Converters (RDC) for Automotive market?

What factors are driving Resolver-to-Digital Converters (RDC) for Automotive market growth, globally and by region?

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

How do Resolver-to-Digital Converters (RDC) for Automotive market opportunities vary by end market size?

How does Resolver-to-Digital Converters (RDC) for Automotive break out by Theory, by Application?

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