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Global Resolver-to-Digital Converters (RDC) for Automotive 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 Resolver-to-Digital Converters (RDC) for Automotive market size was valued at US$ 93.70 million in 2025 and is forecast to a readjusted size of US$ 189 million by 2032 with a CAGR of 10.5% during review period.

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.

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

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

This report is a detailed and comprehensive analysis for global Resolver-to-Digital Converters (RDC) for Automotive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Theory 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 Resolver-to-Digital Converters (RDC) for Automotive market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Resolver-to-Digital Converters (RDC) for Automotive market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Resolver-to-Digital Converters (RDC) for Automotive market size and forecasts, by Theory and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Resolver-to-Digital Converters (RDC) for Automotive market shares of main players, shipments in revenue ($ Million), sales quantity (K 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 Resolver-to-Digital Converters (RDC) for Automotive
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

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This report profiles key players in the global Resolver-to-Digital Converters (RDC) for Automotive 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 Renesas, Texas Instruments, Analog Devices, Inc., Tamagawa Seiki, Lianyungang Jariec Electronics, Beijing Semidrive Technology, Shanghai Xinchi Technology, etc.

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

Market Segmentation

Resolver-to-Digital Converters (RDC) for Automotive market is split by Theory and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Theory, 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 Theory

Analog Decoder Chip

Digital Decoder Chip

Market segment by Integration

Single-chip Decoding

Split-type Decoder

Market segment by Precision

High Precision Decoder Chip

Standard Precision Decoder Chip

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Market segment by Arithmetic

Cosine Decoding

Switch Decoding

Market segment by Application

Commercial Vehicle

Passenger Vehicle

Major players covered

Renesas

Texas Instruments

Analog Devices, Inc.

Tamagawa Seiki

Lianyungang Jariec Electronics

Beijing Semidrive Technology

Shanghai Xinchi Technology

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)

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

Chapter 1, to describe Resolver-to-Digital Converters (RDC) for Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Resolver-to-Digital Converters (RDC) for Automotive, with price, sales quantity, revenue, and global market share of Resolver-to-Digital Converters (RDC) for Automotive from 2021 to 2026.

Chapter 3, the Resolver-to-Digital Converters (RDC) for Automotive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Resolver-to-Digital Converters (RDC) for Automotive 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 Theory and by Application, with sales market share and growth rate by Theory, 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 Resolver-to-Digital Converters (RDC) for Automotive market forecast, by regions, by Theory, 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 Resolver-to-Digital Converters (RDC) for Automotive.

Chapter 14 and 15, to describe Resolver-to-Digital Converters (RDC) for Automotive sales channel, distributors, customers, research findings and conclusion.

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