

Global Automotive Chips Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Automotive Chips market size will reach 32,805 Million USD in 2025 and is projected to reach 49,686 Million USD by 2032, with a CAGR of 6.11% (2025-2032). Notably, the China Automotive Chips market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Automotive chips, also known as automotive semiconductors or automotive integrated circuits (ICs), are electronic components designed specifically for use in vehicles. These chips play a crucial role in enabling various functions and systems in modern automobiles. They are used in engine control units (ECUs), infotainment systems, safety systems, powertrain control modules (PCMs), and several other automotive applications. Automotive chips are responsible for processing and controlling signals from sensors, managing power distribution, enabling communication between different vehicle systems, and executing various functions related to engine performance, vehicle diagnostics, advanced driver assistance systems (ADAS), connectivity features, and more. The automotive industry increasingly relies on these chips for enabling advanced features, enhancing vehicle performance, improving fuel efficiency, and ensuring overall vehicle safety and reliability. Automotive chips undergo rigorous testing to meet industry standards, including temperature range requirements and durability in harsh automotive environments.

The major global manufacturers of Automotive Chips include Infineon, NXP, Renesas, Texas Instrument, ST, Onsemi, Microchip, Micron, Samsung, SK Hynix, Winbond, Western Digital, Wingtech, Kioxia, GigaDevice, ISSI, Analog Devices, Nanya, SemiDrive, Horizon Robotics, Powersemi, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Automotive Chips. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Automotive Chips market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Automotive Chips market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Automotive Chips industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Automotive Chips Include:

Infineon

NXP

Renesas

Texas Instrument

ST

Onsemi

Microchip

Micron

Samsung

SK Hynix

Winbond

Western Digital

Wingtech

Kioxia

GigaDevice

ISSI

Analog Devices

Nanya

SemiDrive

Horizon Robotics

Powersemi

Automotive Chips Product Segment Include:

Computing Chip

MCU Function Chip

Power Chip

Driver Chip

Sensor Chip

Analog Chip

Functional Safety Chip

Power Supply Chip

Memory Chip

Communication Chip

Automotive Chips Product Application Include:

Power Control

Battery Management

In-Vehicle Infotainment System

Advanced Driver Assistance Systems (ADAS)

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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