

Global Automotive SerDes Chip 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 SerDes Chip market size will reach 710.30 Million USD in 2025 and is projected to reach 2,272.05 Million USD by 2032, with a CAGR of 18.07% (2025-2032). Notably, the China Automotive SerDes Chip 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

An automotive SerDes (Serializer/Deserializer) chip is a key component in modern vehicles' communication systems. SerDes technology enables the transmission of high-speed data between various electronic control units (ECUs) within the vehicle. These chips serialize data from different sensors, cameras, or other components into a high-speed digital stream for transmission over a serial bus, such as Ethernet or MIPI CSI-2 (Camera Serial Interface). On the receiving end, the SerDes chip deserializes the data back into its original form. Automotive SerDes chips are crucial for enabling advanced driver assistance systems (ADAS), infotainment systems, and other vehicle functions that require high-speed and reliable data communication. They play a vital role in ensuring efficient and secure communication between the various electronic components in modern vehicles, contributing to improved safety, performance, and functionality.

The major global manufacturers of Automotive SerDes Chip include Texas Instruments, Maxim Integrated, NXP, ON Semiconductor, ROHM Semiconductor, Inova

Semiconductors, Sony Semiconductor, Broadcom, STMicroelectronics, THine Electronics, Renesas (Intersil), Infineon, Semtech, Microsemi (Vitesse), Valens Semiconductor, Norelsys, 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 SerDes Chip. 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 SerDes Chip 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 SerDes Chip 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 SerDes Chip 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 SerDes Chip Include:

Texas Instruments

Maxim Integrated

NXP

ON Semiconductor

ROHM Semiconductor

Inova Semiconductors

Sony Semiconductor

Broadcom

STMicroelectronics

THine Electronics

Renesas (Intersil)

Infineon

Semtech

Microsemi (Vitesse)

Valens Semiconductor

Norelsys

Automotive SerDes Chip Product Segment Include:

Low-Speed Automotive SerDes ($?1\text{ Gbps}$)

Mid-Speed Automotive SerDes (1–5 Gbps)

High-Speed Automotive SerDes (5–16 Gbps)

Ultra-High-Speed Automotive SerDes (?16 Gbps)

Automotive SerDes Chip Product Application Include:

ADAS & Autonomous Driving

In-Vehicle Infotainment (IVI) & Digital Cockpit

Camera & Sensor Connectivity

Others

Chapter Scope

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