

# Global SerDes for Automotive Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global SerDes for Automotive market size will reach 231.84 Million USD in 2025 and is projected to reach 409.33 Million USD by 2032, with a CAGR of 8.46% (2025-2032). Notably, the China SerDes for Automotive 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

Serializer/Deserializer (SerDes) technology for automotive applications refers to specialized communication interfaces designed to facilitate high-speed data transfer between various electronic components within vehicles. These components include sensors, cameras, control units, displays, and other onboard systems, requiring efficient and reliable communication for functions such as advanced driver assistance systems (ADAS), infotainment, and vehicle networking. SerDes technology in automotive systems enables the transmission of large volumes of data over limited bandwidth channels while minimizing electromagnetic interference (EMI) and power consumption, critical factors in the automotive environment. SerDes interfaces often incorporate features such as ruggedized designs, automotive-grade components, and compliance with automotive communication standards like Automotive Ethernet (100BASE-T1, 1000BASE-T1), LVDS (Low-Voltage Differential Signaling), or MIPI (Mobile Industry Processor Interface), ensuring robust performance and interoperability in harsh conditions and demanding automotive applications.

The major global manufacturers of SerDes for Automotive 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 SerDes for Automotive. 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 SerDes for Automotive 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 SerDes for Automotive 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 SerDes for Automotive 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 SerDes for Automotive 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

SerDes for Automotive Product Segment Include:

SerDes (>1 Gbps)

Mid-Speed Automotive SerDes (1–5 Gbps)

High-Speed Automotive SerDes (5–16 Gbps)

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

SerDes for Automotive Product Application Include:

ADAS & Autonomous Driving

In-Vehicle Infotainment (IVI) & Digital Cockpit

Camera & Sensor Connectivity

Others

## **Chapter Scope**

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

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Chapter 3: Global SerDes for Automotive Industry Porter's Five Forces Analysis

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