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Global High-speed SerDes Chip Market Growth 2026-2032

https://marketpublishers.com/r/G76194EEECD0EN.html
Date: October 2026
Pages: 93
Price: US$ 3,660.00 (Single User License)
ID: G76194EEECD0EN

Abstracts

The global High-speed SerDes Chip market size is predicted to grow from US$ 667 million in 2025 to US$ 2299 million in 2032; it is expected to grow at a CAGR of 19.7% from 2026 to 2032.

High-speed SerDes Chip is a high-performance serial/deserializer designed for automotive and communications applications, enabling low-latency, high-bandwidth data conversion with robust electromagnetic immunity and automotive-grade reliability. In 2024, the production of High-speed SerDes Chip was 221.6 million units with an average price of 2.5 USD per unit. The single-line annual capacity was approximately 0.5 million units and the average gross margin was about 58%. Upstream materials and equipment include wafers, substrates, packaging materials and precision manufacturing tools such as lithography machines, etchers and ion implanters, with representative suppliers including SUMCO, GlobalWafers, Shin-Etsu, ASML, Applied Materials, Lam Research and Chinese suppliers such as Shanghai Silicon Industry Group, AMEC and JCET. The midstream emphasizes process and design implementation, covering physical layer IP integration, analog front-end and mixed-signal circuit design, packaging and test flow development, and signal integrity and reliability verification. Downstream targets commercial vehicles and passenger cars with representative customers such as Daimler, Volvo Trucks, Cummins, SAIC Motor and Geely.

Automotive-grade SerDes chips are positioned for accelerated adoption driven by the proliferation of multi-camera and multi-sensor ADAS/automated driving suites and the shift to high-bandwidth in-vehicle Ethernet architectures. Standardization efforts and open ecosystem initiatives are reducing integration friction and unit costs, while technical requirements for low latency, deterministic links and automotive reliability create a high-barrier moat for qualified suppliers — making SerDes not only a technical

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enabler for next-generation domain controllers but also an attractive, long-term market segment for semiconductor vendors and tier-1 suppliers.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “High-speed SerDes Chip Industry Forecast” looks at past sales and reviews total world High-speed SerDes Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected High-speed SerDes Chip sales for 2026 through 2032. With High-speed SerDes Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world High-speed SerDes Chip industry.

This Insight Report provides a comprehensive analysis of the global High-speed SerDes Chip 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 High-speed SerDes Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global High-speed SerDes Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-speed SerDes Chip and breaks down the forecast by Type, 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 High-speed SerDes Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of High-speed SerDes Chip market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

? 6Gbps

? 6Gbps

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Segmentation by Channel:

Single-Channel

Multi-Channel

Segmentation by Protocol:

MIPI A-PHY

FPD-Link

Others

Segmentation by Body Domain:

Cockpit Domain

In-Vehicle Infotainment Domain

Others

Segmentation by Application:

Passenger Cars

Commercial Vehicle

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

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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.

Analog Devices (Maxim)

Texas Instruments

Inova Semiconductors

Sony Semiconductor

ROHM Semiconductor

THine Electronics

Renesas

Goke Microelectronics

Ruifake Semiconductor

VelinkTech

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-speed SerDes Chip market?

What factors are driving High-speed SerDes Chip market growth, globally and

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by region?

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

How do High-speed SerDes Chip market opportunities vary by end market size?

How does High-speed SerDes Chip break out by Type, by Application?

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