

Global SerDes Market Size Study & Forecast, by Type (Stand-Alone SerDes and SerDes IP Core) by Application (Data Center, Storage & Networking, Automotive) and Regional Forecasts 2022-2032

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Abstracts

The Global SerDes Market is valued at approximately USD 1.68 billion in 2024 and is expected to grow at a steady CAGR of 12.28% over the forecast period 2025-2035. Serializer/Deserializer (SerDes) technology is pivotal in high-speed data transmission, enabling efficient conversion between serial and parallel data formats. SerDes components are widely implemented across data centers, networking equipment, and automotive applications to enhance data throughput, reduce latency, and optimize overall system performance. The market growth is primarily fueled by the exponential rise in data traffic, cloud adoption, and the growing demand for high-speed communication networks globally.

The accelerated deployment of data centers, storage solutions, and advanced networking infrastructures has intensified the demand for robust and energy-efficient SerDes technologies. Moreover, the advent of autonomous vehicles and connected automotive solutions is creating new opportunities for high-performance SerDes adoption. However, challenges such as rising design complexities, interoperability concerns, and stringent power efficiency requirements may hinder market expansion during the forecast period of 2025-2035.

The detailed segments and sub-segments included in the report are:

By Type:

Stand-Alone SerDes

SerDes IP Core

By Application:

Data Center

Storage & Networking

Automotive

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of APAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Stand-Alone SerDes Expected to Dominate the Market

The stand-alone SerDes segment is anticipated to dominate the market, primarily due to its widespread deployment in high-speed networking, data center interconnects, and storage systems. These solutions provide modularity, higher bandwidth capabilities, and enhanced signal integrity, making them indispensable for performance-critical applications. While SerDes IP cores are gaining adoption for integration into SoCs and ASICs, stand-alone SerDes remains the primary driver due to flexibility, reliability, and

the increasing demand for scalable high-speed interfaces.

Data Center Applications Lead in Revenue Contribution

Among end-user segments, data centers currently contribute the largest revenue share, driven by the exponential growth in cloud computing, hyperscale deployments, and next-generation server architectures. Storage & networking and automotive sectors are expanding steadily, particularly with autonomous vehicles and high-speed communication demands. However, data centers continue to lead due to the continuous expansion of global hyperscale infrastructure, rising internet traffic, and the need for energy-efficient, high-performance data transmission solutions.

The key regions considered for the Global SerDes Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America dominated the market in 2025 due to its strong technological ecosystem, presence of major data center operators, and high adoption of advanced communication protocols. Europe follows with significant growth owing to rising investments in high-speed networking and automotive electronics. Asia Pacific is projected to witness the fastest growth during the forecast period, supported by expanding data centers, industrial automation, and automotive electronics adoption in countries like China, India, and Japan. Latin America and the Middle East & Africa are expected to register moderate growth due to evolving infrastructure and gradual adoption of high-speed communication technologies.

Major market players included in this report are:

Texas Instruments Inc.

Broadcom Inc.

Analog Devices, Inc.

Microchip Technology Inc.

Marvell Technology, Inc.

Maxim Integrated (ADI)

NXP Semiconductors N.V.

Intel Corporation

Synopsys, Inc.

Cadence Design Systems, Inc.

Rambus Inc.

ON Semiconductor Corporation

Lattice Semiconductor Corporation

Xilinx, Inc. (AMD)

Silicon Labs

Global SerDes Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to

incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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