

Global High Speed SerDes Devices Market Growth 2026-2032

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Abstracts

The global High Speed SerDes Devices market size is predicted to grow from US\$ 7806 million in 2025 to US\$ 19576 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 2032.

In 2025, global High Speed Serdes Device output reached about 4 billion units and global capacity of around 5 billion units. The average price is about USD 2 per unit, with gross margins near 42%. High-Speed SerDes devices are integrated semiconductor components that convert parallel data into high-speed serial streams for transmission and then reconstruct the original parallel data at the receiver, enabling efficient, low-pin-count, high-bandwidth communication in systems such as data centers, networking equipment, automotive electronics, and high-performance computing. The supply chain begins upstream with semiconductor materials (silicon wafers, specialty substrates, EDA design tools, and IP cores for high-speed interfaces like PCIe, Ethernet, or SerDes PHYs), followed by midstream IC design companies (fabless firms and IDMs) that develop SerDes chips or integrate them into SoCs, and semiconductor foundries (e.g., advanced-node fabs) that manufacture the devices, along with OSAT providers for packaging and testing; downstream, these components are embedded into switches, routers, servers, storage systems, automotive ADAS/infotainment platforms, and industrial equipment, and are ultimately deployed by cloud service providers, telecom operators, automotive OEMs, and enterprise IT users requiring ultra-high data throughput and signal integrity.

United States market for High Speed SerDes Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High Speed SerDes Devices is estimated to increase from US\$ million

in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High Speed SerDes Devices is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High Speed SerDes Devices players cover Intel (USA), Broadcom (USA), Marvell (USA), NVIDIA (USA), AMD (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High Speed SerDes Devices Industry Forecast" looks at past sales and reviews total world High Speed SerDes Devices sales in 2025, providing a comprehensive analysis by region and market sector of projected High Speed SerDes Devices sales for 2026 through 2032. With High Speed SerDes Devices 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 Devices industry.

This Insight Report provides a comprehensive analysis of the global High Speed SerDes Devices 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 Devices 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 Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High Speed SerDes Devices 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 Devices.

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

Segmentation by Type:

Single-lane SerDes Devices

Multi-lane SerDes Devices

Segmentation by Data Rate:

112 Gbps

Segmentation by Application:

Data Centers

Telecommunications

Automotive

Industrial Automation

Consumer Electronics

Others

This report also splits the market by region:

Americas

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

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.

Intel (USA)

Broadcom (USA)

Marvell (USA)

NVIDIA (USA)

AMD (USA)

Qualcomm (USA)

Analog Devices (USA)

Texas Instruments (USA)

ON Semiconductor (USA)

Microchip (USA)

NXP Semiconductors (Netherlands)

Infineon Technologies (Germany)

STMicroelectronics (Switzerland)

Renesas Electronics (Japan)

ROHM Semiconductor (Japan)

Samsung (South Korea)

MediaTek (Taiwan)

Faraday Technology (Taiwan)

Huawei (China)

UNISOC (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global High Speed SerDes Devices market?

What factors are driving High Speed SerDes Devices market growth, globally and by region?

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

How do High Speed SerDes Devices market opportunities vary by end market size?

How does High Speed SerDes Devices break out by Type, by Application?

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