

# Global Serializer Chip Market Growth 2026-2032

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## Abstracts

The global Serializer Chip market size is predicted to grow from US\$ 978 million in 2025 to US\$ 2058 million in 2032; it is expected to grow at a CAGR of 11.4% from 2026 to 2032.

A Serializer Chip is an integrated circuit (IC) that converts parallel data signals into a high-speed serial data stream for transmission over a single or limited number of communication lines. It is commonly used in high-speed data interfaces, display transmission, automotive camera systems, industrial vision modules, and communication equipment. Serializer chips are typically paired with deserializer chips (SerDes architecture) to enable efficient long-distance and high-bandwidth data transfer while reducing pin count, cable complexity, and electromagnetic interference (EMI). In 2025, global Serializer/SerDes chip production reached approximately 70 M units, with an average global market price of around US\$ 15 per unit. Annual production capacity is 85 M units. Gross Profit Margin: 35.85%. The Serializer/SerDes chip industry chain starts from upstream semiconductor materials and wafers, such as silicon substrates, high-purity chemicals, and photomasks. These materials are processed by foundries and integrated device manufacturers (IDMs) to produce high-speed serializer and deserializer ICs. Midstream includes chip design companies providing SerDes IP blocks, integration into SoCs, and testing services. Downstream applications span automotive (ADAS and in-car networks), data centers, high-speed communications, display systems, and industrial vision equipment, driving demand for higher data rates, lower latency, and reduced power consumption. Serializer/SerDes chips are a critical backbone for modern high-speed digital communication. Their growth is tightly linked to emerging trends like autonomous vehicles, AI data centers, 5G networks, and high-resolution imaging systems. Companies investing in advanced low-power, multi-channel SerDes solutions are likely to capture the largest market share. I believe that the Chinese manufacturers are rapidly catching up and will play a more significant role in the next 5–10 years, especially in automotive and industrial applications.

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

Global key Serializer Chip players cover Infineon Technologies, Broadcom, Analog Devices, NXP Semiconductors, STMicroelectronics, 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 “Serializer Chip Industry Forecast” looks at past sales and reviews total world Serializer Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Serializer Chip sales for 2026 through 2032. With Serializer Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Serializer Chip industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Serializer Chip and breaks down the forecast by Interface 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 Serializer Chip.

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

### Segmentation by Interface Type:

LVDS Serializer

CML Serializer

Sub-LVDS Serializer

SLVS-EC Serializer

### Segmentation by Number of Channels:

Single-Channel Serializer

Dual-Channel Serializer

Quad-Channel Serializer

Octal-Channel Serializer

### Segmentation by Data Rate:

Medium-Speed Serializer (1–6 Gbps)

High-Speed Serializer (>6 Gbps)

Low-Speed Serializer (

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