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Global Serializer-Deserializer (SERDES) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Serializer-Deserializer (SERDES) market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

SERDES IP stands for Serializer/Deserializer Intellectual Property. It refers to a specialized electronic design component or module that facilitates the transmission of serial data over high-speed communication interfaces. SERDES technology is commonly used in various applications, including data communication, networking, telecommunications, and storage systems.

SERDES IP is typically implemented as a digital integrated circuit (IC) and is often provided as intellectual property (IP) by semiconductor companies or IP vendors. It incorporates the necessary circuitry and algorithms to convert parallel data into a serialized format for transmission and then convert the received serialized data back into parallel form for processing.

The primary purpose of SERDES IP is to enable the efficient and reliable transfer of data across high-speed interfaces while minimizing signal degradation and noise interference. It handles tasks such as data serialization, clock recovery, signal conditioning, and error detection and correction.

The Global Mobile Economy Development Report 2023 released by GSMA Intelligence pointed out that by the end of 2022, the number of global mobile users would exceed 5.4 billion. The mobile ecosystem supports 16 million jobs directly and 12 million jobs indirectly.

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According to our Communications Research Centre, in 2022, the global communication equipment was valued at US$ 100 billion. The U.S. and China are powerhouses in the manufacture of communications equipment. According to data from the Ministry of Industry and Information Technology of China, the cumulative revenue of telecommunications services in 2022 was ?1.58 trillion, an increase of 8% over the previous year. The total amount of telecommunications business calculated at the price of the previous year reached ?1.75 trillion, a year-on-year increase of 21.3%. In the same year, the fixed Internet broadband access business revenue was ?240.2 billion, an increase of 7.1% over the previous year, and its proportion in the telecommunications business revenue decreased from 15.3% in the previous year to 15.2%, driving the telecommunications business revenue to increase by 1.1 percentage points.

The Global Info Research report includes an overview of the development of the Serializer-Deserializer (SERDES) industry chain, the market status of High-Speed Communication Interfaces (High-Speed SERDES, Low-Power SERDES), Networking Equipment (High-Speed SERDES, Low-Power SERDES), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Serializer-Deserializer (SERDES).

Regionally, the report analyzes the Serializer-Deserializer (SERDES) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Serializer-Deserializer (SERDES) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Serializer-Deserializer (SERDES) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Serializer-Deserializer (SERDES) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different

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by Type (e.g., High-Speed SERDES, Low-Power SERDES).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Serializer-Deserializer (SERDES) market.

Regional Analysis: The report involves examining the Serializer-Deserializer (SERDES) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Serializer-Deserializer (SERDES) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Serializer-Deserializer (SERDES):

Company Analysis: Report covers individual Serializer-Deserializer (SERDES) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Serializer-Deserializer (SERDES) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (High-Speed Communication Interfaces, Networking Equipment).

Technology Analysis: Report covers specific technologies relevant to Serializer-Deserializer (SERDES). It assesses the current state, advancements, and potential future developments in Serializer-Deserializer (SERDES) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Serializer-Deserializer (SERDES) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through

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primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Serializer-Deserializer (SERDES) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

- High-Speed SERDES
- Low-Power SERDES
- Long-Reach SERDES
- Others

Market segment by Application

- High-Speed Communication Interfaces
- Networking Equipment
- Storage Systems
- Video and Audio Interfaces
- Others

Major players covered

- Synopsys
- Xilinx

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Cadence Design Systems

Rambus

Marvell

Intel

Credo

Lattice Semiconductor

eSilicon

Texas Instruments

S2C

Peraso

Semtech

Point2 Technology

Microchip Technology

Fermionic Design

Silicon Creations

M31 Technology

Microtronix

Global Unichip Crop

Market segment by region, regional analysis covers

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North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Serializer-Deserializer (SERDES) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Serializer-Deserializer (SERDES), with price, sales, revenue and global market share of Serializer-Deserializer (SERDES) from 2018 to 2023.

Chapter 3, the Serializer-Deserializer (SERDES) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Serializer-Deserializer (SERDES) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and Serializer-Deserializer (SERDES) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

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Chapter 13, the key raw materials and key suppliers, and industry chain of Serializer-Deserializer (SERDES).

Chapter 14 and 15, to describe Serializer-Deserializer (SERDES) sales channel, distributors, customers, research findings and conclusion.

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