

Global High Speed SerDes Devices Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Speed SerDes Devices market size is expected to reach \$ 19710 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global High Speed SerDes Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High

Speed SerDes Devices and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Speed SerDes Devices that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Speed SerDes Devices total production and demand, 2021-2032, (K Units)

Global High Speed SerDes Devices total production value, 2021-2032, (USD Million)

Global High Speed SerDes Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High Speed SerDes Devices consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Speed SerDes Devices domestic production, consumption, key domestic manufacturers and share

Global High Speed SerDes Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High Speed SerDes Devices production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Speed SerDes Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Speed SerDes Devices market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel (USA), Broadcom (USA), Marvell (USA), NVIDIA (USA), AMD (USA), Qualcomm (USA), Analog Devices (USA), Texas Instruments (USA), ON Semiconductor (USA), Microchip (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Speed SerDes Devices market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Speed SerDes Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Speed SerDes Devices Market, Segmentation by Type:

Single-lane SerDes Devices

Multi-lane SerDes Devices

Global High Speed SerDes Devices Market, Segmentation by Data Rate:

112 Gbps

Global High Speed SerDes Devices Market, Segmentation by Application:

Data Centers

Telecommunications

Automotive

Industrial Automation

Consumer Electronics

Others

Companies Profiled:

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 Answered:

1. How big is the global High Speed SerDes Devices market?
2. What is the demand of the global High Speed SerDes Devices market?
3. What is the year over year growth of the global High Speed SerDes Devices market?
4. What is the production and production value of the global High Speed SerDes Devices market?
5. Who are the key producers in the global High Speed SerDes Devices market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 High Speed SerDes Devices Introduction
- 1.2 World High Speed SerDes Devices Supply & Forecast
 - 1.2.1 World High Speed SerDes Devices Production Value (2021 & 2025 & 2032)
 - 1.2.2 World High Speed SerDes Devices Production (2021-2032)
 - 1.2.3 World High Speed SerDes Devices Pricing Trends (2021-2032)
- 1.3 World High Speed SerDes Devices Production by Region (Based on Production Site)
 - 1.3.1 World High Speed SerDes Devices Production Value by Region (2021-2032)
 - 1.3.2 World High Speed SerDes Devices Production by Region (2021-2032)
 - 1.3.3 World High Speed SerDes Devices Average Price by Region (2021-2032)
 - 1.3.4 North America High Speed SerDes Devices Production (2021-2032)
 - 1.3.5 Europe High Speed SerDes Devices Production (2021-2032)
 - 1.3.6 China High Speed SerDes Devices Production (2021-2032)
 - 1.3.7 Japan High Speed SerDes Devices Production (2021-2032)
 - 1.3.8 South Korea High Speed SerDes Devices Production (2021-2032)
 - 1.3.9 Southeast Asia High Speed SerDes Devices Production (2021-2032)
 - 1.3.10 China Taiwan High Speed SerDes Devices Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High Speed SerDes Devices Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High Speed SerDes Devices Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High Speed SerDes Devices Demand (2021-2032)
- 2.2 World High Speed SerDes Devices Consumption by Region
 - 2.2.1 World High Speed SerDes Devices Consumption by Region (2021-2026)
 - 2.2.2 World High Speed SerDes Devices Consumption Forecast by Region (2027-2032)
- 2.3 United States High Speed SerDes Devices Consumption (2021-2032)
- 2.4 China High Speed SerDes Devices Consumption (2021-2032)
- 2.5 Europe High Speed SerDes Devices Consumption (2021-2032)
- 2.6 Japan High Speed SerDes Devices Consumption (2021-2032)
- 2.7 South Korea High Speed SerDes Devices Consumption (2021-2032)
- 2.8 ASEAN High Speed SerDes Devices Consumption (2021-2032)
- 2.9 India High Speed SerDes Devices Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High Speed SerDes Devices Production Value by Manufacturer (2021-2026)
- 3.2 World High Speed SerDes Devices Production by Manufacturer (2021-2026)
- 3.3 World High Speed SerDes Devices Average Price by Manufacturer (2021-2026)
- 3.4 High Speed SerDes Devices Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High Speed SerDes Devices Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High Speed SerDes Devices in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High Speed SerDes Devices in 2025
- 3.6 High Speed SerDes Devices Market: Overall Company Footprint Analysis
 - 3.6.1 High Speed SerDes Devices Market: Region Footprint
 - 3.6.2 High Speed SerDes Devices Market: Company Product Type Footprint
 - 3.6.3 High Speed SerDes Devices Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: High Speed SerDes Devices Production Value Comparison
 - 4.1.1 United States VS China: High Speed SerDes Devices Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: High Speed SerDes Devices Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: High Speed SerDes Devices Production Comparison
 - 4.2.1 United States VS China: High Speed SerDes Devices Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: High Speed SerDes Devices Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: High Speed SerDes Devices Consumption Comparison
 - 4.3.1 United States VS China: High Speed SerDes Devices Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: High Speed SerDes Devices Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High Speed SerDes Devices Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Speed SerDes Devices Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Speed SerDes Devices Production (2021-2026)

4.5 China Based High Speed SerDes Devices Manufacturers and Market Share

4.5.1 China Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Speed SerDes Devices Production Value (2021-2026)

4.5.3 China Based Manufacturers High Speed SerDes Devices Production (2021-2026)

4.6 Rest of World Based High Speed SerDes Devices Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Speed SerDes Devices Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Speed SerDes Devices Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High Speed SerDes Devices Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-lane SerDes Devices

5.2.2 Multi-lane SerDes Devices

5.3 Market Segment by Type

5.3.1 World High Speed SerDes Devices Production by Type (2021-2032)

5.3.2 World High Speed SerDes Devices Production Value by Type (2021-2032)

5.3.3 World High Speed SerDes Devices Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DATA RATE

6.1 World High Speed SerDes Devices Market Size Overview by Data Rate: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Data Rate

6.2.1 112 Gbps

6.3 Market Segment by Data Rate

6.3.1 World High Speed SerDes Devices Production by Data Rate (2021-2032)

6.3.2 World High Speed SerDes Devices Production Value by Data Rate (2021-2032)

6.3.3 World High Speed SerDes Devices Average Price by Data Rate (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World High Speed SerDes Devices Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Data Centers

7.2.2 Telecommunications

7.2.3 Automotive

7.2.4 Industrial Automation

7.2.5 Consumer Electronics

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World High Speed SerDes Devices Production by Application (2021-2032)

7.3.2 World High Speed SerDes Devices Production Value by Application (2021-2032)

7.3.3 World High Speed SerDes Devices Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Intel (USA)

8.1.1 Intel (USA) Details

8.1.2 Intel (USA) Major Business

8.1.3 Intel (USA) High Speed SerDes Devices Product and Services

8.1.4 Intel (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Intel (USA) Recent Developments/Updates

8.1.6 Intel (USA) Competitive Strengths & Weaknesses

8.2 Broadcom (USA)

8.2.1 Broadcom (USA) Details

8.2.2 Broadcom (USA) Major Business

8.2.3 Broadcom (USA) High Speed SerDes Devices Product and Services

8.2.4 Broadcom (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.2.5 Broadcom (USA) Recent Developments/Updates
- 8.2.6 Broadcom (USA) Competitive Strengths & Weaknesses
- 8.3 Marvell (USA)
 - 8.3.1 Marvell (USA) Details
 - 8.3.2 Marvell (USA) Major Business
 - 8.3.3 Marvell (USA) High Speed SerDes Devices Product and Services
 - 8.3.4 Marvell (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Marvell (USA) Recent Developments/Updates
 - 8.3.6 Marvell (USA) Competitive Strengths & Weaknesses
- 8.4 NVIDIA (USA)
 - 8.4.1 NVIDIA (USA) Details
 - 8.4.2 NVIDIA (USA) Major Business
 - 8.4.3 NVIDIA (USA) High Speed SerDes Devices Product and Services
 - 8.4.4 NVIDIA (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 NVIDIA (USA) Recent Developments/Updates
 - 8.4.6 NVIDIA (USA) Competitive Strengths & Weaknesses
- 8.5 AMD (USA)
 - 8.5.1 AMD (USA) Details
 - 8.5.2 AMD (USA) Major Business
 - 8.5.3 AMD (USA) High Speed SerDes Devices Product and Services
 - 8.5.4 AMD (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 AMD (USA) Recent Developments/Updates
 - 8.5.6 AMD (USA) Competitive Strengths & Weaknesses
- 8.6 Qualcomm (USA)
 - 8.6.1 Qualcomm (USA) Details
 - 8.6.2 Qualcomm (USA) Major Business
 - 8.6.3 Qualcomm (USA) High Speed SerDes Devices Product and Services
 - 8.6.4 Qualcomm (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Qualcomm (USA) Recent Developments/Updates
 - 8.6.6 Qualcomm (USA) Competitive Strengths & Weaknesses
- 8.7 Analog Devices (USA)
 - 8.7.1 Analog Devices (USA) Details
 - 8.7.2 Analog Devices (USA) Major Business
 - 8.7.3 Analog Devices (USA) High Speed SerDes Devices Product and Services
 - 8.7.4 Analog Devices (USA) High Speed SerDes Devices Production, Price, Value,

Gross Margin and Market Share (2021-2026)

8.7.5 Analog Devices (USA) Recent Developments/Updates

8.7.6 Analog Devices (USA) Competitive Strengths & Weaknesses

8.8 Texas Instruments (USA)

8.8.1 Texas Instruments (USA) Details

8.8.2 Texas Instruments (USA) Major Business

8.8.3 Texas Instruments (USA) High Speed SerDes Devices Product and Services

8.8.4 Texas Instruments (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Texas Instruments (USA) Recent Developments/Updates

8.8.6 Texas Instruments (USA) Competitive Strengths & Weaknesses

8.9 ON Semiconductor (USA)

8.9.1 ON Semiconductor (USA) Details

8.9.2 ON Semiconductor (USA) Major Business

8.9.3 ON Semiconductor (USA) High Speed SerDes Devices Product and Services

8.9.4 ON Semiconductor (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 ON Semiconductor (USA) Recent Developments/Updates

8.9.6 ON Semiconductor (USA) Competitive Strengths & Weaknesses

8.10 Microchip (USA)

8.10.1 Microchip (USA) Details

8.10.2 Microchip (USA) Major Business

8.10.3 Microchip (USA) High Speed SerDes Devices Product and Services

8.10.4 Microchip (USA) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Microchip (USA) Recent Developments/Updates

8.10.6 Microchip (USA) Competitive Strengths & Weaknesses

8.11 NXP Semiconductors (Netherlands)

8.11.1 NXP Semiconductors (Netherlands) Details

8.11.2 NXP Semiconductors (Netherlands) Major Business

8.11.3 NXP Semiconductors (Netherlands) High Speed SerDes Devices Product and Services

8.11.4 NXP Semiconductors (Netherlands) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.11.5 NXP Semiconductors (Netherlands) Recent Developments/Updates

8.11.6 NXP Semiconductors (Netherlands) Competitive Strengths & Weaknesses

8.12 Infineon Technologies (Germany)

8.12.1 Infineon Technologies (Germany) Details

8.12.2 Infineon Technologies (Germany) Major Business

8.12.3 Infineon Technologies (Germany) High Speed SerDes Devices Product and Services

8.12.4 Infineon Technologies (Germany) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.12.5 Infineon Technologies (Germany) Recent Developments/Updates

8.12.6 Infineon Technologies (Germany) Competitive Strengths & Weaknesses

8.13 STMicroelectronics (Switzerland)

8.13.1 STMicroelectronics (Switzerland) Details

8.13.2 STMicroelectronics (Switzerland) Major Business

8.13.3 STMicroelectronics (Switzerland) High Speed SerDes Devices Product and Services

8.13.4 STMicroelectronics (Switzerland) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.13.5 STMicroelectronics (Switzerland) Recent Developments/Updates

8.13.6 STMicroelectronics (Switzerland) Competitive Strengths & Weaknesses

8.14 Renesas Electronics (Japan)

8.14.1 Renesas Electronics (Japan) Details

8.14.2 Renesas Electronics (Japan) Major Business

8.14.3 Renesas Electronics (Japan) High Speed SerDes Devices Product and Services

8.14.4 Renesas Electronics (Japan) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.14.5 Renesas Electronics (Japan) Recent Developments/Updates

8.14.6 Renesas Electronics (Japan) Competitive Strengths & Weaknesses

8.15 ROHM Semiconductor (Japan)

8.15.1 ROHM Semiconductor (Japan) Details

8.15.2 ROHM Semiconductor (Japan) Major Business

8.15.3 ROHM Semiconductor (Japan) High Speed SerDes Devices Product and Services

8.15.4 ROHM Semiconductor (Japan) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.15.5 ROHM Semiconductor (Japan) Recent Developments/Updates

8.15.6 ROHM Semiconductor (Japan) Competitive Strengths & Weaknesses

8.16 Samsung (South Korea)

8.16.1 Samsung (South Korea) Details

8.16.2 Samsung (South Korea) Major Business

8.16.3 Samsung (South Korea) High Speed SerDes Devices Product and Services

8.16.4 Samsung (South Korea) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.16.5 Samsung (South Korea) Recent Developments/Updates

8.16.6 Samsung (South Korea) Competitive Strengths & Weaknesses

8.17 MediaTek (Taiwan)

8.17.1 MediaTek (Taiwan) Details

8.17.2 MediaTek (Taiwan) Major Business

8.17.3 MediaTek (Taiwan) High Speed SerDes Devices Product and Services

8.17.4 MediaTek (Taiwan) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 MediaTek (Taiwan) Recent Developments/Updates

8.17.6 MediaTek (Taiwan) Competitive Strengths & Weaknesses

8.18 Faraday Technology (Taiwan)

8.18.1 Faraday Technology (Taiwan) Details

8.18.2 Faraday Technology (Taiwan) Major Business

8.18.3 Faraday Technology (Taiwan) High Speed SerDes Devices Product and Services

8.18.4 Faraday Technology (Taiwan) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.18.5 Faraday Technology (Taiwan) Recent Developments/Updates

8.18.6 Faraday Technology (Taiwan) Competitive Strengths & Weaknesses

8.19 Huawei (China)

8.19.1 Huawei (China) Details

8.19.2 Huawei (China) Major Business

8.19.3 Huawei (China) High Speed SerDes Devices Product and Services

8.19.4 Huawei (China) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.19.5 Huawei (China) Recent Developments/Updates

8.19.6 Huawei (China) Competitive Strengths & Weaknesses

8.20 UNISOC (China)

8.20.1 UNISOC (China) Details

8.20.2 UNISOC (China) Major Business

8.20.3 UNISOC (China) High Speed SerDes Devices Product and Services

8.20.4 UNISOC (China) High Speed SerDes Devices Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.20.5 UNISOC (China) Recent Developments/Updates

8.20.6 UNISOC (China) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 High Speed SerDes Devices Industry Chain

9.2 High Speed SerDes Devices Upstream Analysis

- 9.2.1 High Speed SerDes Devices Core Raw Materials
- 9.2.2 Main Manufacturers of High Speed SerDes Devices Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 High Speed SerDes Devices Production Mode
- 9.6 High Speed SerDes Devices Procurement Model
- 9.7 High Speed SerDes Devices Industry Sales Model and Sales Channels
 - 9.7.1 High Speed SerDes Devices Sales Model
 - 9.7.2 High Speed SerDes Devices Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High Speed SerDes Devices Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Speed SerDes Devices Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Speed SerDes Devices Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Speed SerDes Devices Production Value Market Share by Region (2021-2026)

Table 5. World High Speed SerDes Devices Production Value Market Share by Region (2027-2032)

Table 6. World High Speed SerDes Devices Production by Region (2021-2026) & (K Units)

Table 7. World High Speed SerDes Devices Production by Region (2027-2032) & (K Units)

Table 8. World High Speed SerDes Devices Production Market Share by Region (2021-2026)

Table 9. World High Speed SerDes Devices Production Market Share by Region (2027-2032)

Table 10. World High Speed SerDes Devices Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High Speed SerDes Devices Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High Speed SerDes Devices Major Market Trends

Table 13. World High Speed SerDes Devices Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World High Speed SerDes Devices Consumption by Region (2021-2026) & (K Units)

Table 15. World High Speed SerDes Devices Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World High Speed SerDes Devices Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Speed SerDes Devices Producers in 2025

Table 18. World High Speed SerDes Devices Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key High Speed SerDes Devices Producers in 2025

Table 20. World High Speed SerDes Devices Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High Speed SerDes Devices Company Evaluation Quadrant

Table 22. World High Speed SerDes Devices Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Speed SerDes Devices Production Site of Key Manufacturer

Table 24. High Speed SerDes Devices Market: Company Product Type Footprint

Table 25. High Speed SerDes Devices Market: Company Product Application Footprint

Table 26. High Speed SerDes Devices Competitive Factors

Table 27. High Speed SerDes Devices New Entrant and Capacity Expansion Plans

Table 28. High Speed SerDes Devices Mergers & Acquisitions Activity

Table 29. United States VS China High Speed SerDes Devices Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Speed SerDes Devices Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China High Speed SerDes Devices Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Speed SerDes Devices Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Speed SerDes Devices Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Speed SerDes Devices Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers High Speed SerDes Devices Production Market Share (2021-2026)

Table 37. China Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Speed SerDes Devices Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Speed SerDes Devices Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Speed SerDes Devices Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers High Speed SerDes Devices Production Market

Share (2021-2026)

Table 42. Rest of World Based High Speed SerDes Devices Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Speed SerDes Devices Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Speed SerDes Devices Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Speed SerDes Devices Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers High Speed SerDes Devices Production Market Share (2021-2026)

Table 47. World High Speed SerDes Devices Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Speed SerDes Devices Production by Type (2021-2026) & (K Units)

Table 49. World High Speed SerDes Devices Production by Type (2027-2032) & (K Units)

Table 50. World High Speed SerDes Devices Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Speed SerDes Devices Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Speed SerDes Devices Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High Speed SerDes Devices Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High Speed SerDes Devices Production Value by Data Rate, (USD Million), 2021 & 2025 & 2032

Table 55. World High Speed SerDes Devices Production by Data Rate (2021-2026) & (K Units)

Table 56. World High Speed SerDes Devices Production by Data Rate (2027-2032) & (K Units)

Table 57. World High Speed SerDes Devices Production Value by Data Rate (2021-2026) & (USD Million)

Table 58. World High Speed SerDes Devices Production Value by Data Rate (2027-2032) & (USD Million)

Table 59. World High Speed SerDes Devices Average Price by Data Rate (2021-2026) & (US\$/Unit)

Table 60. World High Speed SerDes Devices Average Price by Data Rate (2027-2032) & (US\$/Unit)

Table 61. World High Speed SerDes Devices Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World High Speed SerDes Devices Production by Application (2021-2026) & (K Units)

Table 63. World High Speed SerDes Devices Production by Application (2027-2032) & (K Units)

Table 64. World High Speed SerDes Devices Production Value by Application (2021-2026) & (USD Million)

Table 65. World High Speed SerDes Devices Production Value by Application (2027-2032) & (USD Million)

Table 66. World High Speed SerDes Devices Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World High Speed SerDes Devices Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Intel (USA) Basic Information, Manufacturing Base and Competitors

Table 69. Intel (USA) Major Business

Table 70. Intel (USA) High Speed SerDes Devices Product and Services

Table 71. Intel (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Intel (USA) Recent Developments/Updates

Table 73. Intel (USA) Competitive Strengths & Weaknesses

Table 74. Broadcom (USA) Basic Information, Manufacturing Base and Competitors

Table 75. Broadcom (USA) Major Business

Table 76. Broadcom (USA) High Speed SerDes Devices Product and Services

Table 77. Broadcom (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Broadcom (USA) Recent Developments/Updates

Table 79. Broadcom (USA) Competitive Strengths & Weaknesses

Table 80. Marvell (USA) Basic Information, Manufacturing Base and Competitors

Table 81. Marvell (USA) Major Business

Table 82. Marvell (USA) High Speed SerDes Devices Product and Services

Table 83. Marvell (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Marvell (USA) Recent Developments/Updates

Table 85. Marvell (USA) Competitive Strengths & Weaknesses

Table 86. NVIDIA (USA) Basic Information, Manufacturing Base and Competitors

Table 87. NVIDIA (USA) Major Business

Table 88. NVIDIA (USA) High Speed SerDes Devices Product and Services

Table 89. NVIDIA (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. NVIDIA (USA) Recent Developments/Updates

Table 91. NVIDIA (USA) Competitive Strengths & Weaknesses

Table 92. AMD (USA) Basic Information, Manufacturing Base and Competitors

Table 93. AMD (USA) Major Business

Table 94. AMD (USA) High Speed SerDes Devices Product and Services

Table 95. AMD (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. AMD (USA) Recent Developments/Updates

Table 97. AMD (USA) Competitive Strengths & Weaknesses

Table 98. Qualcomm (USA) Basic Information, Manufacturing Base and Competitors

Table 99. Qualcomm (USA) Major Business

Table 100. Qualcomm (USA) High Speed SerDes Devices Product and Services

Table 101. Qualcomm (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Qualcomm (USA) Recent Developments/Updates

Table 103. Qualcomm (USA) Competitive Strengths & Weaknesses

Table 104. Analog Devices (USA) Basic Information, Manufacturing Base and Competitors

Table 105. Analog Devices (USA) Major Business

Table 106. Analog Devices (USA) High Speed SerDes Devices Product and Services

Table 107. Analog Devices (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Analog Devices (USA) Recent Developments/Updates

Table 109. Analog Devices (USA) Competitive Strengths & Weaknesses

Table 110. Texas Instruments (USA) Basic Information, Manufacturing Base and Competitors

Table 111. Texas Instruments (USA) Major Business

Table 112. Texas Instruments (USA) High Speed SerDes Devices Product and Services

Table 113. Texas Instruments (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Texas Instruments (USA) Recent Developments/Updates

Table 115. Texas Instruments (USA) Competitive Strengths & Weaknesses

Table 116. ON Semiconductor (USA) Basic Information, Manufacturing Base and Competitors

Table 117. ON Semiconductor (USA) Major Business

Table 118. ON Semiconductor (USA) High Speed SerDes Devices Product and Services

Table 119. ON Semiconductor (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. ON Semiconductor (USA) Recent Developments/Updates

Table 121. ON Semiconductor (USA) Competitive Strengths & Weaknesses

Table 122. Microchip (USA) Basic Information, Manufacturing Base and Competitors

Table 123. Microchip (USA) Major Business

Table 124. Microchip (USA) High Speed SerDes Devices Product and Services

Table 125. Microchip (USA) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Microchip (USA) Recent Developments/Updates

Table 127. Microchip (USA) Competitive Strengths & Weaknesses

Table 128. NXP Semiconductors (Netherlands) Basic Information, Manufacturing Base and Competitors

Table 129. NXP Semiconductors (Netherlands) Major Business

Table 130. NXP Semiconductors (Netherlands) High Speed SerDes Devices Product and Services

Table 131. NXP Semiconductors (Netherlands) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. NXP Semiconductors (Netherlands) Recent Developments/Updates

Table 133. NXP Semiconductors (Netherlands) Competitive Strengths & Weaknesses

Table 134. Infineon Technologies (Germany) Basic Information, Manufacturing Base and Competitors

Table 135. Infineon Technologies (Germany) Major Business

Table 136. Infineon Technologies (Germany) High Speed SerDes Devices Product and Services

Table 137. Infineon Technologies (Germany) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Infineon Technologies (Germany) Recent Developments/Updates

Table 139. Infineon Technologies (Germany) Competitive Strengths & Weaknesses

Table 140. STMicroelectronics (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 141. STMicroelectronics (Switzerland) Major Business

Table 142. STMicroelectronics (Switzerland) High Speed SerDes Devices Product and Services

Table 143. STMicroelectronics (Switzerland) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. STMicroelectronics (Switzerland) Recent Developments/Updates

Table 145. STMicroelectronics (Switzerland) Competitive Strengths & Weaknesses

Table 146. Renesas Electronics (Japan) Basic Information, Manufacturing Base and Competitors

Table 147. Renesas Electronics (Japan) Major Business

Table 148. Renesas Electronics (Japan) High Speed SerDes Devices Product and Services

Table 149. Renesas Electronics (Japan) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Renesas Electronics (Japan) Recent Developments/Updates

Table 151. Renesas Electronics (Japan) Competitive Strengths & Weaknesses

Table 152. ROHM Semiconductor (Japan) Basic Information, Manufacturing Base and Competitors

Table 153. ROHM Semiconductor (Japan) Major Business

Table 154. ROHM Semiconductor (Japan) High Speed SerDes Devices Product and Services

Table 155. ROHM Semiconductor (Japan) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. ROHM Semiconductor (Japan) Recent Developments/Updates

Table 157. ROHM Semiconductor (Japan) Competitive Strengths & Weaknesses

Table 158. Samsung (South Korea) Basic Information, Manufacturing Base and Competitors

Table 159. Samsung (South Korea) Major Business

Table 160. Samsung (South Korea) High Speed SerDes Devices Product and Services

Table 161. Samsung (South Korea) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Samsung (South Korea) Recent Developments/Updates

Table 163. Samsung (South Korea) Competitive Strengths & Weaknesses
Table 164. MediaTek (Taiwan) Basic Information, Manufacturing Base and Competitors
Table 165. MediaTek (Taiwan) Major Business
Table 166. MediaTek (Taiwan) High Speed SerDes Devices Product and Services
Table 167. MediaTek (Taiwan) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 168. MediaTek (Taiwan) Recent Developments/Updates
Table 169. MediaTek (Taiwan) Competitive Strengths & Weaknesses
Table 170. Faraday Technology (Taiwan) Basic Information, Manufacturing Base and Competitors
Table 171. Faraday Technology (Taiwan) Major Business
Table 172. Faraday Technology (Taiwan) High Speed SerDes Devices Product and Services
Table 173. Faraday Technology (Taiwan) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 174. Faraday Technology (Taiwan) Recent Developments/Updates
Table 175. Faraday Technology (Taiwan) Competitive Strengths & Weaknesses
Table 176. Huawei (China) Basic Information, Manufacturing Base and Competitors
Table 177. Huawei (China) Major Business
Table 178. Huawei (China) High Speed SerDes Devices Product and Services
Table 179. Huawei (China) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 180. Huawei (China) Recent Developments/Updates
Table 181. Huawei (China) Competitive Strengths & Weaknesses
Table 182. UNISOC (China) Basic Information, Manufacturing Base and Competitors
Table 183. UNISOC (China) Major Business
Table 184. UNISOC (China) High Speed SerDes Devices Product and Services
Table 185. UNISOC (China) High Speed SerDes Devices Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 186. UNISOC (China) Recent Developments/Updates
Table 187. UNISOC (China) Competitive Strengths & Weaknesses
Table 188. Global Key Players of High Speed SerDes Devices Upstream (Raw Materials)
Table 189. Global High Speed SerDes Devices Typical Customers
Table 190. High Speed SerDes Devices Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Speed SerDes Devices Picture

Figure 2. World High Speed SerDes Devices Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Speed SerDes Devices Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 5. World High Speed SerDes Devices Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High Speed SerDes Devices Production Value Market Share by Region (2021-2032)

Figure 7. World High Speed SerDes Devices Production Market Share by Region (2021-2032)

Figure 8. North America High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 9. Europe High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 10. China High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 11. Japan High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 12. South Korea High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 13. Southeast Asia High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 14. China Taiwan High Speed SerDes Devices Production (2021-2032) & (K Units)

Figure 15. High Speed SerDes Devices Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 18. World High Speed SerDes Devices Consumption Market Share by Region (2021-2032)

Figure 19. United States High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 20. China High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 21. Europe High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 22. Japan High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 23. South Korea High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 24. ASEAN High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 25. India High Speed SerDes Devices Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of High Speed SerDes Devices by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for High Speed SerDes Devices Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for High Speed SerDes Devices Markets in 2025

Figure 29. United States VS China: High Speed SerDes Devices Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: High Speed SerDes Devices Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: High Speed SerDes Devices Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers High Speed SerDes Devices Production Market Share 2025

Figure 33. China Based Manufacturers High Speed SerDes Devices Production Market Share 2025

Figure 34. Rest of World Based Manufacturers High Speed SerDes Devices Production Market Share 2025

Figure 35. World High Speed SerDes Devices Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World High Speed SerDes Devices Production Value Market Share by Type in 2025

Figure 37. Single-lane SerDes Devices

Figure 38. Multi-lane SerDes Devices

Figure 39. World High Speed SerDes Devices Production Market Share by Type (2021-2032)

Figure 40. World High Speed SerDes Devices Production Value Market Share by Type (2021-2032)

Figure 41. World High Speed SerDes Devices Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World High Speed SerDes Devices Production Value by Data Rate, (USD Million), 2021 & 2025 & 2032

Figure 43. World High Speed SerDes Devices Production Value Market Share by Data Rate in 2025

Figure 44. 112 Gbps

Figure 48. World High Speed SerDes Devices Production Market Share by Data Rate (2021-2032)

Figure 49. World High Speed SerDes Devices Production Value Market Share by Data

Rate (2021-2032)

Figure 50. World High Speed SerDes Devices Average Price by Data Rate (2021-2032) & (US\$/Unit)

Figure 51. World High Speed SerDes Devices Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World High Speed SerDes Devices Production Value Market Share by Application in 2025

Figure 53. Data Centers

Figure 54. Telecommunications

Figure 55. Automotive

Figure 56. Industrial Automation

Figure 57. Consumer Electronics

Figure 58. Others

Figure 59. World High Speed SerDes Devices Production Market Share by Application (2021-2032)

Figure 60. World High Speed SerDes Devices Production Value Market Share by Application (2021-2032)

Figure 61. World High Speed SerDes Devices Average Price by Application (2021-2032) & (US\$/Unit)

Figure 62. High Speed SerDes Devices Industry Chain

Figure 63. High Speed SerDes Devices Procurement Model

Figure 64. High Speed SerDes Devices Sales Model

Figure 65. High Speed SerDes Devices Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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