

Global Silicon Photonic Device 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 Silicon Photonic Device market size was valued at USD 1691.9 million in 2022 and is forecast to a readjusted size of USD 6885.3 million by 2029 with a CAGR of 22.2% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Improvement in data center cloud computing performance, increase in data traffic, decrease in bandwidth, and continuous specification across the silicon photonics device end-use industry are the key factors driving the increase in silicon photonics device market revenue.

Silicon Photonic device mainly includes optical active and passive devices made of silicon semiconductor materials, including silicon-based lasers (responsible for converting electrical signals into optical signals), silicon-based photodetectors (responsible for converting optical signals into electrical signals), silicon Basic optical modulator (responsible for increasing the bandwidth of optical signals), planar waveguide (responsible for optical signal transmission on silicon-based materials), grating coupler (responsible for aligning with externally connected optical fibers to reduce insertion loss), etc.

This report is a detailed and comprehensive analysis for global Silicon Photonic Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Silicon Photonic Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Photonic Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Photonic Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Silicon Photonic Device market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Silicon Photonic Device

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Silicon Photonic Device 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 Cisco Systems, Intel, IBM, STMicroelectronics and Broadcom, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Silicon Photonic Device 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Active

Passive

Market segment by Application

Telecommunications

Medical

Defense

Consumer Electronics

Others

Major players covered

Cisco Systems

Intel

IBM

STMicroelectronics

Broadcom

Acacia

Finisar

Infinera

Luxtera

Hamamatsu

Juniper

Rockley Photonics

Reflex Photonics

Huawei

Wuhan Research Institute of Posts and Telecommunications

Hisense Broadband Multimedia Technologies

Shandong Yunhai Guochuang

Market segment by region, regional analysis covers

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 Silicon Photonic Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Photonic Device, with price, sales, revenue and global market share of Silicon Photonic Device from 2018 to 2023.

Chapter 3, the Silicon Photonic Device competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Photonic Device 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 Silicon Photonic Device 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.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Photonic Device.

Chapter 14 and 15, to describe Silicon Photonic Device sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Silicon Photonic Device

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Silicon Photonic Device Consumption Value by Type: 2018 Versus 2022 Versus 2029

1.3.2 Active

1.3.3 Passive

1.4 Market Analysis by Application

1.4.1 Overview: Global Silicon Photonic Device Consumption Value by Application: 2018 Versus 2022 Versus 2029

1.4.2 Telecommunications

1.4.3 Medical

1.4.4 Defense

1.4.5 Consumer Electronics

1.4.6 Others

1.5 Global Silicon Photonic Device Market Size & Forecast

1.5.1 Global Silicon Photonic Device Consumption Value (2018 & 2022 & 2029)

1.5.2 Global Silicon Photonic Device Sales Quantity (2018-2029)

1.5.3 Global Silicon Photonic Device Average Price (2018-2029)

2 MANUFACTURERS PROFILES

2.1 Cisco Systems

2.1.1 Cisco Systems Details

2.1.2 Cisco Systems Major Business

2.1.3 Cisco Systems Silicon Photonic Device Product and Services

2.1.4 Cisco Systems Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 Cisco Systems Recent Developments/Updates

2.2 Intel

2.2.1 Intel Details

2.2.2 Intel Major Business

2.2.3 Intel Silicon Photonic Device Product and Services

2.2.4 Intel Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

- 2.2.5 Intel Recent Developments/Updates
- 2.3 IBM
 - 2.3.1 IBM Details
 - 2.3.2 IBM Major Business
 - 2.3.3 IBM Silicon Photonic Device Product and Services
 - 2.3.4 IBM Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.3.5 IBM Recent Developments/Updates
- 2.4 STMicroelectronics
 - 2.4.1 STMicroelectronics Details
 - 2.4.2 STMicroelectronics Major Business
 - 2.4.3 STMicroelectronics Silicon Photonic Device Product and Services
 - 2.4.4 STMicroelectronics Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.4.5 STMicroelectronics Recent Developments/Updates
- 2.5 Broadcom
 - 2.5.1 Broadcom Details
 - 2.5.2 Broadcom Major Business
 - 2.5.3 Broadcom Silicon Photonic Device Product and Services
 - 2.5.4 Broadcom Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.5.5 Broadcom Recent Developments/Updates
- 2.6 Acacia
 - 2.6.1 Acacia Details
 - 2.6.2 Acacia Major Business
 - 2.6.3 Acacia Silicon Photonic Device Product and Services
 - 2.6.4 Acacia Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.6.5 Acacia Recent Developments/Updates
- 2.7 Finisar
 - 2.7.1 Finisar Details
 - 2.7.2 Finisar Major Business
 - 2.7.3 Finisar Silicon Photonic Device Product and Services
 - 2.7.4 Finisar Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.7.5 Finisar Recent Developments/Updates
- 2.8 Infinera
 - 2.8.1 Infinera Details
 - 2.8.2 Infinera Major Business

- 2.8.3 Infinera Silicon Photonic Device Product and Services
- 2.8.4 Infinera Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 Infinera Recent Developments/Updates
- 2.9 Luxtera
 - 2.9.1 Luxtera Details
 - 2.9.2 Luxtera Major Business
 - 2.9.3 Luxtera Silicon Photonic Device Product and Services
 - 2.9.4 Luxtera Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.9.5 Luxtera Recent Developments/Updates
- 2.10 Hamamatsu
 - 2.10.1 Hamamatsu Details
 - 2.10.2 Hamamatsu Major Business
 - 2.10.3 Hamamatsu Silicon Photonic Device Product and Services
 - 2.10.4 Hamamatsu Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.10.5 Hamamatsu Recent Developments/Updates
- 2.11 Juniper
 - 2.11.1 Juniper Details
 - 2.11.2 Juniper Major Business
 - 2.11.3 Juniper Silicon Photonic Device Product and Services
 - 2.11.4 Juniper Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.11.5 Juniper Recent Developments/Updates
- 2.12 Rockley Photonics
 - 2.12.1 Rockley Photonics Details
 - 2.12.2 Rockley Photonics Major Business
 - 2.12.3 Rockley Photonics Silicon Photonic Device Product and Services
 - 2.12.4 Rockley Photonics Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.12.5 Rockley Photonics Recent Developments/Updates
- 2.13 Reflex Photonics
 - 2.13.1 Reflex Photonics Details
 - 2.13.2 Reflex Photonics Major Business
 - 2.13.3 Reflex Photonics Silicon Photonic Device Product and Services
 - 2.13.4 Reflex Photonics Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.13.5 Reflex Photonics Recent Developments/Updates

2.14 Huawei

2.14.1 Huawei Details

2.14.2 Huawei Major Business

2.14.3 Huawei Silicon Photonic Device Product and Services

2.14.4 Huawei Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.14.5 Huawei Recent Developments/Updates

2.15 Wuhan Research Institute of Posts and Telecommunications

2.15.1 Wuhan Research Institute of Posts and Telecommunications Details

2.15.2 Wuhan Research Institute of Posts and Telecommunications Major Business

2.15.3 Wuhan Research Institute of Posts and Telecommunications Silicon Photonic Device Product and Services

2.15.4 Wuhan Research Institute of Posts and Telecommunications Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.15.5 Wuhan Research Institute of Posts and Telecommunications Recent Developments/Updates

2.16 Hisense Broadband Multimedia Technologies

2.16.1 Hisense Broadband Multimedia Technologies Details

2.16.2 Hisense Broadband Multimedia Technologies Major Business

2.16.3 Hisense Broadband Multimedia Technologies Silicon Photonic Device Product and Services

2.16.4 Hisense Broadband Multimedia Technologies Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.16.5 Hisense Broadband Multimedia Technologies Recent Developments/Updates

2.17 Shandong Yunhai Guochuang

2.17.1 Shandong Yunhai Guochuang Details

2.17.2 Shandong Yunhai Guochuang Major Business

2.17.3 Shandong Yunhai Guochuang Silicon Photonic Device Product and Services

2.17.4 Shandong Yunhai Guochuang Silicon Photonic Device Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.17.5 Shandong Yunhai Guochuang Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SILICON PHOTONIC DEVICE BY MANUFACTURER

3.1 Global Silicon Photonic Device Sales Quantity by Manufacturer (2018-2023)

3.2 Global Silicon Photonic Device Revenue by Manufacturer (2018-2023)

3.3 Global Silicon Photonic Device Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of Silicon Photonic Device by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 Silicon Photonic Device Manufacturer Market Share in 2022

3.4.2 Top 6 Silicon Photonic Device Manufacturer Market Share in 2022

3.5 Silicon Photonic Device Market: Overall Company Footprint Analysis

3.5.1 Silicon Photonic Device Market: Region Footprint

3.5.2 Silicon Photonic Device Market: Company Product Type Footprint

3.5.3 Silicon Photonic Device Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Silicon Photonic Device Market Size by Region

4.1.1 Global Silicon Photonic Device Sales Quantity by Region (2018-2029)

4.1.2 Global Silicon Photonic Device Consumption Value by Region (2018-2029)

4.1.3 Global Silicon Photonic Device Average Price by Region (2018-2029)

4.2 North America Silicon Photonic Device Consumption Value (2018-2029)

4.3 Europe Silicon Photonic Device Consumption Value (2018-2029)

4.4 Asia-Pacific Silicon Photonic Device Consumption Value (2018-2029)

4.5 South America Silicon Photonic Device Consumption Value (2018-2029)

4.6 Middle East and Africa Silicon Photonic Device Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Silicon Photonic Device Sales Quantity by Type (2018-2029)

5.2 Global Silicon Photonic Device Consumption Value by Type (2018-2029)

5.3 Global Silicon Photonic Device Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Silicon Photonic Device Sales Quantity by Application (2018-2029)

6.2 Global Silicon Photonic Device Consumption Value by Application (2018-2029)

6.3 Global Silicon Photonic Device Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Silicon Photonic Device Sales Quantity by Type (2018-2029)

- 7.2 North America Silicon Photonic Device Sales Quantity by Application (2018-2029)
- 7.3 North America Silicon Photonic Device Market Size by Country
 - 7.3.1 North America Silicon Photonic Device Sales Quantity by Country (2018-2029)
 - 7.3.2 North America Silicon Photonic Device Consumption Value by Country (2018-2029)
 - 7.3.3 United States Market Size and Forecast (2018-2029)
 - 7.3.4 Canada Market Size and Forecast (2018-2029)
 - 7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

- 8.1 Europe Silicon Photonic Device Sales Quantity by Type (2018-2029)
- 8.2 Europe Silicon Photonic Device Sales Quantity by Application (2018-2029)
- 8.3 Europe Silicon Photonic Device Market Size by Country
 - 8.3.1 Europe Silicon Photonic Device Sales Quantity by Country (2018-2029)
 - 8.3.2 Europe Silicon Photonic Device Consumption Value by Country (2018-2029)
 - 8.3.3 Germany Market Size and Forecast (2018-2029)
 - 8.3.4 France Market Size and Forecast (2018-2029)
 - 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
 - 8.3.6 Russia Market Size and Forecast (2018-2029)
 - 8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Silicon Photonic Device Sales Quantity by Type (2018-2029)
- 9.2 Asia-Pacific Silicon Photonic Device Sales Quantity by Application (2018-2029)
- 9.3 Asia-Pacific Silicon Photonic Device Market Size by Region
 - 9.3.1 Asia-Pacific Silicon Photonic Device Sales Quantity by Region (2018-2029)
 - 9.3.2 Asia-Pacific Silicon Photonic Device Consumption Value by Region (2018-2029)
 - 9.3.3 China Market Size and Forecast (2018-2029)
 - 9.3.4 Japan Market Size and Forecast (2018-2029)
 - 9.3.5 Korea Market Size and Forecast (2018-2029)
 - 9.3.6 India Market Size and Forecast (2018-2029)
 - 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
 - 9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

- 10.1 South America Silicon Photonic Device Sales Quantity by Type (2018-2029)

10.2 South America Silicon Photonic Device Sales Quantity by Application (2018-2029)

10.3 South America Silicon Photonic Device Market Size by Country

10.3.1 South America Silicon Photonic Device Sales Quantity by Country (2018-2029)

10.3.2 South America Silicon Photonic Device Consumption Value by Country
(2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Silicon Photonic Device Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Silicon Photonic Device Sales Quantity by Application
(2018-2029)

11.3 Middle East & Africa Silicon Photonic Device Market Size by Country

11.3.1 Middle East & Africa Silicon Photonic Device Sales Quantity by Country
(2018-2029)

11.3.2 Middle East & Africa Silicon Photonic Device Consumption Value by Country
(2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

11.3.4 Egypt Market Size and Forecast (2018-2029)

11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)

11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

12.1 Silicon Photonic Device Market Drivers

12.2 Silicon Photonic Device Market Restraints

12.3 Silicon Photonic Device Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

12.5 Influence of COVID-19 and Russia-Ukraine War

12.5.1 Influence of COVID-19

12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Silicon Photonic Device and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Silicon Photonic Device
- 13.3 Silicon Photonic Device Production Process
- 13.4 Silicon Photonic Device Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Silicon Photonic Device Typical Distributors
- 14.3 Silicon Photonic Device Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Silicon Photonic Device Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Silicon Photonic Device Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Cisco Systems Basic Information, Manufacturing Base and Competitors

Table 4. Cisco Systems Major Business

Table 5. Cisco Systems Silicon Photonic Device Product and Services

Table 6. Cisco Systems Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Cisco Systems Recent Developments/Updates

Table 8. Intel Basic Information, Manufacturing Base and Competitors

Table 9. Intel Major Business

Table 10. Intel Silicon Photonic Device Product and Services

Table 11. Intel Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Intel Recent Developments/Updates

Table 13. IBM Basic Information, Manufacturing Base and Competitors

Table 14. IBM Major Business

Table 15. IBM Silicon Photonic Device Product and Services

Table 16. IBM Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. IBM Recent Developments/Updates

Table 18. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 19. STMicroelectronics Major Business

Table 20. STMicroelectronics Silicon Photonic Device Product and Services

Table 21. STMicroelectronics Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. STMicroelectronics Recent Developments/Updates

Table 23. Broadcom Basic Information, Manufacturing Base and Competitors

Table 24. Broadcom Major Business

Table 25. Broadcom Silicon Photonic Device Product and Services

Table 26. Broadcom Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Broadcom Recent Developments/Updates

Table 28. Acacia Basic Information, Manufacturing Base and Competitors

Table 29. Acacia Major Business

Table 30. Acacia Silicon Photonic Device Product and Services

Table 31. Acacia Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Acacia Recent Developments/Updates

Table 33. Finisar Basic Information, Manufacturing Base and Competitors

Table 34. Finisar Major Business

Table 35. Finisar Silicon Photonic Device Product and Services

Table 36. Finisar Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Finisar Recent Developments/Updates

Table 38. Infinera Basic Information, Manufacturing Base and Competitors

Table 39. Infinera Major Business

Table 40. Infinera Silicon Photonic Device Product and Services

Table 41. Infinera Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. Infinera Recent Developments/Updates

Table 43. Luxtera Basic Information, Manufacturing Base and Competitors

Table 44. Luxtera Major Business

Table 45. Luxtera Silicon Photonic Device Product and Services

Table 46. Luxtera Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 47. Luxtera Recent Developments/Updates

Table 48. Hamamatsu Basic Information, Manufacturing Base and Competitors

Table 49. Hamamatsu Major Business

Table 50. Hamamatsu Silicon Photonic Device Product and Services

Table 51. Hamamatsu Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. Hamamatsu Recent Developments/Updates

Table 53. Juniper Basic Information, Manufacturing Base and Competitors

Table 54. Juniper Major Business

Table 55. Juniper Silicon Photonic Device Product and Services

Table 56. Juniper Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. Juniper Recent Developments/Updates

Table 58. Rockley Photonics Basic Information, Manufacturing Base and Competitors

Table 59. Rockley Photonics Major Business

Table 60. Rockley Photonics Silicon Photonic Device Product and Services

Table 61. Rockley Photonics Silicon Photonic Device Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Rockley Photonics Recent Developments/Updates

Table 63. Reflex Photonics Basic Information, Manufacturing Base and Competitors

Table 64. Reflex Photonics Major Business

Table 65. Reflex Photonics Silicon Photonic Device Product and Services

Table 66. Reflex Photonics Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Reflex Photonics Recent Developments/Updates

Table 68. Huawei Basic Information, Manufacturing Base and Competitors

Table 69. Huawei Major Business

Table 70. Huawei Silicon Photonic Device Product and Services

Table 71. Huawei Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. Huawei Recent Developments/Updates

Table 73. Wuhan Research Institute of Posts and Telecommunications Basic Information, Manufacturing Base and Competitors

Table 74. Wuhan Research Institute of Posts and Telecommunications Major Business

Table 75. Wuhan Research Institute of Posts and Telecommunications Silicon Photonic Device Product and Services

Table 76. Wuhan Research Institute of Posts and Telecommunications Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Wuhan Research Institute of Posts and Telecommunications Recent Developments/Updates

Table 78. Hisense Broadband Multimedia Technologies Basic Information, Manufacturing Base and Competitors

Table 79. Hisense Broadband Multimedia Technologies Major Business

Table 80. Hisense Broadband Multimedia Technologies Silicon Photonic Device Product and Services

Table 81. Hisense Broadband Multimedia Technologies Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 82. Hisense Broadband Multimedia Technologies Recent Developments/Updates

Table 83. Shandong Yunhai Guochuang Basic Information, Manufacturing Base and Competitors

Table 84. Shandong Yunhai Guochuang Major Business

Table 85. Shandong Yunhai Guochuang Silicon Photonic Device Product and Services

Table 86. Shandong Yunhai Guochuang Silicon Photonic Device Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2018-2023)

Table 87. Shandong Yunhai Guochuang Recent Developments/Updates

Table 88. Global Silicon Photonic Device Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 89. Global Silicon Photonic Device Revenue by Manufacturer (2018-2023) & (USD Million)

Table 90. Global Silicon Photonic Device Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 91. Market Position of Manufacturers in Silicon Photonic Device, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 92. Head Office and Silicon Photonic Device Production Site of Key Manufacturer

Table 93. Silicon Photonic Device Market: Company Product Type Footprint

Table 94. Silicon Photonic Device Market: Company Product Application Footprint

Table 95. Silicon Photonic Device New Market Entrants and Barriers to Market Entry

Table 96. Silicon Photonic Device Mergers, Acquisition, Agreements, and Collaborations

Table 97. Global Silicon Photonic Device Sales Quantity by Region (2018-2023) & (K Units)

Table 98. Global Silicon Photonic Device Sales Quantity by Region (2024-2029) & (K Units)

Table 99. Global Silicon Photonic Device Consumption Value by Region (2018-2023) & (USD Million)

Table 100. Global Silicon Photonic Device Consumption Value by Region (2024-2029) & (USD Million)

Table 101. Global Silicon Photonic Device Average Price by Region (2018-2023) & (US\$/Unit)

Table 102. Global Silicon Photonic Device Average Price by Region (2024-2029) & (US\$/Unit)

Table 103. Global Silicon Photonic Device Sales Quantity by Type (2018-2023) & (K Units)

Table 104. Global Silicon Photonic Device Sales Quantity by Type (2024-2029) & (K Units)

Table 105. Global Silicon Photonic Device Consumption Value by Type (2018-2023) & (USD Million)

Table 106. Global Silicon Photonic Device Consumption Value by Type (2024-2029) & (USD Million)

Table 107. Global Silicon Photonic Device Average Price by Type (2018-2023) & (US\$/Unit)

Table 108. Global Silicon Photonic Device Average Price by Type (2024-2029) &

(US\$/Unit)

Table 109. Global Silicon Photonic Device Sales Quantity by Application (2018-2023) & (K Units)

Table 110. Global Silicon Photonic Device Sales Quantity by Application (2024-2029) & (K Units)

Table 111. Global Silicon Photonic Device Consumption Value by Application (2018-2023) & (USD Million)

Table 112. Global Silicon Photonic Device Consumption Value by Application (2024-2029) & (USD Million)

Table 113. Global Silicon Photonic Device Average Price by Application (2018-2023) & (US\$/Unit)

Table 114. Global Silicon Photonic Device Average Price by Application (2024-2029) & (US\$/Unit)

Table 115. North America Silicon Photonic Device Sales Quantity by Type (2018-2023) & (K Units)

Table 116. North America Silicon Photonic Device Sales Quantity by Type (2024-2029) & (K Units)

Table 117. North America Silicon Photonic Device Sales Quantity by Application (2018-2023) & (K Units)

Table 118. North America Silicon Photonic Device Sales Quantity by Application (2024-2029) & (K Units)

Table 119. North America Silicon Photonic Device Sales Quantity by Country (2018-2023) & (K Units)

Table 120. North America Silicon Photonic Device Sales Quantity by Country (2024-2029) & (K Units)

Table 121. North America Silicon Photonic Device Consumption Value by Country (2018-2023) & (USD Million)

Table 122. North America Silicon Photonic Device Consumption Value by Country (2024-2029) & (USD Million)

Table 123. Europe Silicon Photonic Device Sales Quantity by Type (2018-2023) & (K Units)

Table 124. Europe Silicon Photonic Device Sales Quantity by Type (2024-2029) & (K Units)

Table 125. Europe Silicon Photonic Device Sales Quantity by Application (2018-2023) & (K Units)

Table 126. Europe Silicon Photonic Device Sales Quantity by Application (2024-2029) & (K Units)

Table 127. Europe Silicon Photonic Device Sales Quantity by Country (2018-2023) & (K Units)

Table 128. Europe Silicon Photonic Device Sales Quantity by Country (2024-2029) & (K Units)

Table 129. Europe Silicon Photonic Device Consumption Value by Country (2018-2023) & (USD Million)

Table 130. Europe Silicon Photonic Device Consumption Value by Country (2024-2029) & (USD Million)

Table 131. Asia-Pacific Silicon Photonic Device Sales Quantity by Type (2018-2023) & (K Units)

Table 132. Asia-Pacific Silicon Photonic Device Sales Quantity by Type (2024-2029) & (K Units)

Table 133. Asia-Pacific Silicon Photonic Device Sales Quantity by Application (2018-2023) & (K Units)

Table 134. Asia-Pacific Silicon Photonic Device Sales Quantity by Application (2024-2029) & (K Units)

Table 135. Asia-Pacific Silicon Photonic Device Sales Quantity by Region (2018-2023) & (K Units)

Table 136. Asia-Pacific Silicon Photonic Device Sales Quantity by Region (2024-2029) & (K Units)

Table 137. Asia-Pacific Silicon Photonic Device Consumption Value by Region (2018-2023) & (USD Million)

Table 138. Asia-Pacific Silicon Photonic Device Consumption Value by Region (2024-2029) & (USD Million)

Table 139. South America Silicon Photonic Device Sales Quantity by Type (2018-2023) & (K Units)

Table 140. South America Silicon Photonic Device Sales Quantity by Type (2024-2029) & (K Units)

Table 141. South America Silicon Photonic Device Sales Quantity by Application (2018-2023) & (K Units)

Table 142. South America Silicon Photonic Device Sales Quantity by Application (2024-2029) & (K Units)

Table 143. South America Silicon Photonic Device Sales Quantity by Country (2018-2023) & (K Units)

Table 144. South America Silicon Photonic Device Sales Quantity by Country (2024-2029) & (K Units)

Table 145. South America Silicon Photonic Device Consumption Value by Country (2018-2023) & (USD Million)

Table 146. South America Silicon Photonic Device Consumption Value by Country (2024-2029) & (USD Million)

Table 147. Middle East & Africa Silicon Photonic Device Sales Quantity by Type

(2018-2023) & (K Units)

Table 148. Middle East & Africa Silicon Photonic Device Sales Quantity by Type

(2024-2029) & (K Units)

Table 149. Middle East & Africa Silicon Photonic Device Sales Quantity by Application

(2018-2023) & (K Units)

Table 150. Middle East & Africa Silicon Photonic Device Sales Quantity by Application

(2024-2029) & (K Units)

Table 151. Middle East & Africa Silicon Photonic Device Sales Quantity by Region

(2018-2023) & (K Units)

Table 152. Middle East & Africa Silicon Photonic Device Sales Quantity by Region

(2024-2029) & (K Units)

Table 153. Middle East & Africa Silicon Photonic Device Consumption Value by Region

(2018-2023) & (USD Million)

Table 154. Middle East & Africa Silicon Photonic Device Consumption Value by Region

(2024-2029) & (USD Million)

Table 155. Silicon Photonic Device Raw Material

Table 156. Key Manufacturers of Silicon Photonic Device Raw Materials

Table 157. Silicon Photonic Device Typical Distributors

Table 158. Silicon Photonic Device Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Photonic Device Picture

Figure 2. Global Silicon Photonic Device Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 3. Global Silicon Photonic Device Consumption Value Market Share by Type in 2022

Figure 4. Active Examples

Figure 5. Passive Examples

Figure 6. Global Silicon Photonic Device Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 7. Global Silicon Photonic Device Consumption Value Market Share by Application in 2022

Figure 8. Telecommunications Examples

Figure 9. Medical Examples

Figure 10. Defense Examples

Figure 11. Consumer Electronics Examples

Figure 12. Others Examples

Figure 13. Global Silicon Photonic Device Consumption Value, (USD Million): 2018 & 2022 & 2029

Figure 14. Global Silicon Photonic Device Consumption Value and Forecast (2018-2029) & (USD Million)

Figure 15. Global Silicon Photonic Device Sales Quantity (2018-2029) & (K Units)

Figure 16. Global Silicon Photonic Device Average Price (2018-2029) & (US\$/Unit)

Figure 17. Global Silicon Photonic Device Sales Quantity Market Share by Manufacturer in 2022

Figure 18. Global Silicon Photonic Device Consumption Value Market Share by Manufacturer in 2022

Figure 19. Producer Shipments of Silicon Photonic Device by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021

Figure 20. Top 3 Silicon Photonic Device Manufacturer (Consumption Value) Market Share in 2022

Figure 21. Top 6 Silicon Photonic Device Manufacturer (Consumption Value) Market Share in 2022

Figure 22. Global Silicon Photonic Device Sales Quantity Market Share by Region (2018-2029)

Figure 23. Global Silicon Photonic Device Consumption Value Market Share by Region

(2018-2029)

Figure 24. North America Silicon Photonic Device Consumption Value (2018-2029) & (USD Million)

Figure 25. Europe Silicon Photonic Device Consumption Value (2018-2029) & (USD Million)

Figure 26. Asia-Pacific Silicon Photonic Device Consumption Value (2018-2029) & (USD Million)

Figure 27. South America Silicon Photonic Device Consumption Value (2018-2029) & (USD Million)

Figure 28. Middle East & Africa Silicon Photonic Device Consumption Value (2018-2029) & (USD Million)

Figure 29. Global Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 30. Global Silicon Photonic Device Consumption Value Market Share by Type (2018-2029)

Figure 31. Global Silicon Photonic Device Average Price by Type (2018-2029) & (US\$/Unit)

Figure 32. Global Silicon Photonic Device Sales Quantity Market Share by Application (2018-2029)

Figure 33. Global Silicon Photonic Device Consumption Value Market Share by Application (2018-2029)

Figure 34. Global Silicon Photonic Device Average Price by Application (2018-2029) & (US\$/Unit)

Figure 35. North America Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 36. North America Silicon Photonic Device Sales Quantity Market Share by Application (2018-2029)

Figure 37. North America Silicon Photonic Device Sales Quantity Market Share by Country (2018-2029)

Figure 38. North America Silicon Photonic Device Consumption Value Market Share by Country (2018-2029)

Figure 39. United States Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Canada Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Mexico Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Europe Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 43. Europe Silicon Photonic Device Sales Quantity Market Share by Application (2018-2029)

Figure 44. Europe Silicon Photonic Device Sales Quantity Market Share by Country (2018-2029)

Figure 45. Europe Silicon Photonic Device Consumption Value Market Share by Country (2018-2029)

Figure 46. Germany Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. France Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. United Kingdom Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Russia Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Italy Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Asia-Pacific Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 52. Asia-Pacific Silicon Photonic Device Sales Quantity Market Share by Application (2018-2029)

Figure 53. Asia-Pacific Silicon Photonic Device Sales Quantity Market Share by Region (2018-2029)

Figure 54. Asia-Pacific Silicon Photonic Device Consumption Value Market Share by Region (2018-2029)

Figure 55. China Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. Japan Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Korea Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. India Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. Southeast Asia Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Australia Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. South America Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 62. South America Silicon Photonic Device Sales Quantity Market Share by

Application (2018-2029)

Figure 63. South America Silicon Photonic Device Sales Quantity Market Share by Country (2018-2029)

Figure 64. South America Silicon Photonic Device Consumption Value Market Share by Country (2018-2029)

Figure 65. Brazil Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 66. Argentina Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Middle East & Africa Silicon Photonic Device Sales Quantity Market Share by Type (2018-2029)

Figure 68. Middle East & Africa Silicon Photonic Device Sales Quantity Market Share by Application (2018-2029)

Figure 69. Middle East & Africa Silicon Photonic Device Sales Quantity Market Share by Region (2018-2029)

Figure 70. Middle East & Africa Silicon Photonic Device Consumption Value Market Share by Region (2018-2029)

Figure 71. Turkey Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. Egypt Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Saudi Arabia Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. South Africa Silicon Photonic Device Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. Silicon Photonic Device Market Drivers

Figure 76. Silicon Photonic Device Market Restraints

Figure 77. Silicon Photonic Device Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Silicon Photonic Device in 2022

Figure 80. Manufacturing Process Analysis of Silicon Photonic Device

Figure 81. Silicon Photonic Device Industrial Chain

Figure 82. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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