

Global Photonic IC Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Photonic IC market size was valued at US\$ 1212.3 million in 2023. With growing demand in downstream market, the Photonic IC is forecast to a readjusted size of US\$ 4817 million by 2030 with a CAGR of 21.8% during review period.

The research report highlights the growth potential of the global Photonic IC market. Photonic IC are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Photonic IC. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Photonic IC market.

A photonic integrated circuit (PIC) or integrated optical circuit is a device that integrates multiple (at least two) photonic functions and as such is similar to an electronic integrated circuit. The major difference between the two is that a photonic integrated circuit provides functions for information signals imposed on optical wavelengths typically in the visible spectrum or near infrared 850 nm-1650 nm.

The key brand include Infinera, Alcatel-Lucent, Avago, NeoPhotonics, HUAWEI, Cisco, Ciena, Intel, Oclaro, JDS Uniphase, Finisar, Luxtera, Mellanox and OneChip, etc, with about 93% market shares.

Key Features:

The report on Photonic IC market reflects various aspects and provide valuable insights

into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Photonic IC market. It may include historical data, market segmentation by Type (e.g., Monolithic Integration, Hybrid Integration), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Photonic IC market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Photonic IC market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Photonic IC industry. This include advancements in Photonic IC technology, Photonic IC new entrants, Photonic IC new investment, and other innovations that are shaping the future of Photonic IC.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Photonic IC market. It includes factors influencing customer ' purchasing decisions, preferences for Photonic IC product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Photonic IC market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Photonic IC market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Photonic IC market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Photonic IC industry. This includes projections of market size, growth rates, regional trends, and predictions on

technological advancements and policy developments.

Recommendations and Opportunities: The report concludes with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Photonic IC market.

Market Segmentation:

Photonic IC market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Monolithic Integration

Hybrid Integration

Module Integration

Segmentation by application

Optical Communication

Sensing

Biophotonics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Infinera

Alcatel-Lucent

Avago

NeoPhotonics

HUAWEI

Cisco

Ciena

Intel

Oclaro

JDS Uniphase

Finisar

Luxtera

Mellanox

OneChip

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photonic IC market?

What factors are driving Photonic IC market growth, globally and by region?

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

How do Photonic IC market opportunities vary by end market size?

How does Photonic IC break out type, application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Photonic IC Annual Sales 2019-2030
 - 2.1.2 World Current & Future Analysis for Photonic IC by Geographic Region, 2019, 2023 & 2030
 - 2.1.3 World Current & Future Analysis for Photonic IC by Country/Region, 2019, 2023 & 2030
- 2.2 Photonic IC Segment by Type
 - 2.2.1 Monolithic Integration
 - 2.2.2 Hybrid Integration
 - 2.2.3 Module Integration
- 2.3 Photonic IC Sales by Type
 - 2.3.1 Global Photonic IC Sales Market Share by Type (2019-2024)
 - 2.3.2 Global Photonic IC Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global Photonic IC Sale Price by Type (2019-2024)
- 2.4 Photonic IC Segment by Application
 - 2.4.1 Optical Communication
 - 2.4.2 Sensing
 - 2.4.3 Biophotonics
 - 2.4.4 Others
- 2.5 Photonic IC Sales by Application
 - 2.5.1 Global Photonic IC Sale Market Share by Application (2019-2024)
 - 2.5.2 Global Photonic IC Revenue and Market Share by Application (2019-2024)
 - 2.5.3 Global Photonic IC Sale Price by Application (2019-2024)

3 GLOBAL PHOTONIC IC BY COMPANY

3.1 Global Photonic IC Breakdown Data by Company

3.1.1 Global Photonic IC Annual Sales by Company (2019-2024)

3.1.2 Global Photonic IC Sales Market Share by Company (2019-2024)

3.2 Global Photonic IC Annual Revenue by Company (2019-2024)

3.2.1 Global Photonic IC Revenue by Company (2019-2024)

3.2.2 Global Photonic IC Revenue Market Share by Company (2019-2024)

3.3 Global Photonic IC Sale Price by Company

3.4 Key Manufacturers Photonic IC Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Photonic IC Product Location Distribution

3.4.2 Players Photonic IC Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR PHOTONIC IC BY GEOGRAPHIC REGION

4.1 World Historic Photonic IC Market Size by Geographic Region (2019-2024)

4.1.1 Global Photonic IC Annual Sales by Geographic Region (2019-2024)

4.1.2 Global Photonic IC Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic Photonic IC Market Size by Country/Region (2019-2024)

4.2.1 Global Photonic IC Annual Sales by Country/Region (2019-2024)

4.2.2 Global Photonic IC Annual Revenue by Country/Region (2019-2024)

4.3 Americas Photonic IC Sales Growth

4.4 APAC Photonic IC Sales Growth

4.5 Europe Photonic IC Sales Growth

4.6 Middle East & Africa Photonic IC Sales Growth

5 AMERICAS

5.1 Americas Photonic IC Sales by Country

5.1.1 Americas Photonic IC Sales by Country (2019-2024)

5.1.2 Americas Photonic IC Revenue by Country (2019-2024)

5.2 Americas Photonic IC Sales by Type

5.3 Americas Photonic IC Sales by Application

- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Photonic IC Sales by Region
 - 6.1.1 APAC Photonic IC Sales by Region (2019-2024)
 - 6.1.2 APAC Photonic IC Revenue by Region (2019-2024)
- 6.2 APAC Photonic IC Sales by Type
- 6.3 APAC Photonic IC Sales by Application
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Photonic IC by Country
 - 7.1.1 Europe Photonic IC Sales by Country (2019-2024)
 - 7.1.2 Europe Photonic IC Revenue by Country (2019-2024)
- 7.2 Europe Photonic IC Sales by Type
- 7.3 Europe Photonic IC Sales by Application
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Photonic IC by Country
 - 8.1.1 Middle East & Africa Photonic IC Sales by Country (2019-2024)
 - 8.1.2 Middle East & Africa Photonic IC Revenue by Country (2019-2024)
- 8.2 Middle East & Africa Photonic IC Sales by Type

8.3 Middle East & Africa Photonic IC Sales by Application

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Photonic IC

10.3 Manufacturing Process Analysis of Photonic IC

10.4 Industry Chain Structure of Photonic IC

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Photonic IC Distributors

11.3 Photonic IC Customer

12 WORLD FORECAST REVIEW FOR PHOTONIC IC BY GEOGRAPHIC REGION

12.1 Global Photonic IC Market Size Forecast by Region

12.1.1 Global Photonic IC Forecast by Region (2025-2030)

12.1.2 Global Photonic IC Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global Photonic IC Forecast by Type

12.7 Global Photonic IC Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Infinera

13.1.1 Infinera Company Information

13.1.2 Infinera Photonic IC Product Portfolios and Specifications

13.1.3 Infinera Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Infinera Main Business Overview

13.1.5 Infinera Latest Developments

13.2 Alcatel-Lucent

13.2.1 Alcatel-Lucent Company Information

13.2.2 Alcatel-Lucent Photonic IC Product Portfolios and Specifications

13.2.3 Alcatel-Lucent Photonic IC Sales, Revenue, Price and Gross Margin
(2019-2024)

13.2.4 Alcatel-Lucent Main Business Overview

13.2.5 Alcatel-Lucent Latest Developments

13.3 Avago

13.3.1 Avago Company Information

13.3.2 Avago Photonic IC Product Portfolios and Specifications

13.3.3 Avago Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

13.3.4 Avago Main Business Overview

13.3.5 Avago Latest Developments

13.4 NeoPhotonics

13.4.1 NeoPhotonics Company Information

13.4.2 NeoPhotonics Photonic IC Product Portfolios and Specifications

13.4.3 NeoPhotonics Photonic IC Sales, Revenue, Price and Gross Margin
(2019-2024)

13.4.4 NeoPhotonics Main Business Overview

13.4.5 NeoPhotonics Latest Developments

13.5 HUAWEI

13.5.1 HUAWEI Company Information

13.5.2 HUAWEI Photonic IC Product Portfolios and Specifications

13.5.3 HUAWEI Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

13.5.4 HUAWEI Main Business Overview

13.5.5 HUAWEI Latest Developments

13.6 Cisco

13.6.1 Cisco Company Information

13.6.2 Cisco Photonic IC Product Portfolios and Specifications

13.6.3 Cisco Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.6.4 Cisco Main Business Overview
- 13.6.5 Cisco Latest Developments
- 13.7 Ciena
 - 13.7.1 Ciena Company Information
 - 13.7.2 Ciena Photonic IC Product Portfolios and Specifications
 - 13.7.3 Ciena Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 Ciena Main Business Overview
 - 13.7.5 Ciena Latest Developments
- 13.8 Intel
 - 13.8.1 Intel Company Information
 - 13.8.2 Intel Photonic IC Product Portfolios and Specifications
 - 13.8.3 Intel Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 Intel Main Business Overview
 - 13.8.5 Intel Latest Developments
- 13.9 Oclaro
 - 13.9.1 Oclaro Company Information
 - 13.9.2 Oclaro Photonic IC Product Portfolios and Specifications
 - 13.9.3 Oclaro Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.9.4 Oclaro Main Business Overview
 - 13.9.5 Oclaro Latest Developments
- 13.10 JDS Uniphase
 - 13.10.1 JDS Uniphase Company Information
 - 13.10.2 JDS Uniphase Photonic IC Product Portfolios and Specifications
 - 13.10.3 JDS Uniphase Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.10.4 JDS Uniphase Main Business Overview
 - 13.10.5 JDS Uniphase Latest Developments
- 13.11 Finisar
 - 13.11.1 Finisar Company Information
 - 13.11.2 Finisar Photonic IC Product Portfolios and Specifications
 - 13.11.3 Finisar Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.11.4 Finisar Main Business Overview
 - 13.11.5 Finisar Latest Developments
- 13.12 Luxtera
 - 13.12.1 Luxtera Company Information
 - 13.12.2 Luxtera Photonic IC Product Portfolios and Specifications
 - 13.12.3 Luxtera Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.12.4 Luxtera Main Business Overview
 - 13.12.5 Luxtera Latest Developments

13.13 Mellanox

13.13.1 Mellanox Company Information

13.13.2 Mellanox Photonic IC Product Portfolios and Specifications

13.13.3 Mellanox Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

13.13.4 Mellanox Main Business Overview

13.13.5 Mellanox Latest Developments

13.14 OneChip

13.14.1 OneChip Company Information

13.14.2 OneChip Photonic IC Product Portfolios and Specifications

13.14.3 OneChip Photonic IC Sales, Revenue, Price and Gross Margin (2019-2024)

13.14.4 OneChip Main Business Overview

13.14.5 OneChip Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Photonic IC Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Photonic IC Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Monolithic Integration

Table 4. Major Players of Hybrid Integration

Table 5. Major Players of Module Integration

Table 6. Global Photonic IC Sales by Type (2019-2024) & (K Units)

Table 7. Global Photonic IC Sales Market Share by Type (2019-2024)

Table 8. Global Photonic IC Revenue by Type (2019-2024) & (\$ million)

Table 9. Global Photonic IC Revenue Market Share by Type (2019-2024)

Table 10. Global Photonic IC Sale Price by Type (2019-2024) & (USD/Unit)

Table 11. Global Photonic IC Sales by Application (2019-2024) & (K Units)

Table 12. Global Photonic IC Sales Market Share by Application (2019-2024)

Table 13. Global Photonic IC Revenue by Application (2019-2024)

Table 14. Global Photonic IC Revenue Market Share by Application (2019-2024)

Table 15. Global Photonic IC Sale Price by Application (2019-2024) & (USD/Unit)

Table 16. Global Photonic IC Sales by Company (2019-2024) & (K Units)

Table 17. Global Photonic IC Sales Market Share by Company (2019-2024)

Table 18. Global Photonic IC Revenue by Company (2019-2024) (\$ Millions)

Table 19. Global Photonic IC Revenue Market Share by Company (2019-2024)

Table 20. Global Photonic IC Sale Price by Company (2019-2024) & (USD/Unit)

Table 21. Key Manufacturers Photonic IC Producing Area Distribution and Sales Area

Table 22. Players Photonic IC Products Offered

Table 23. Photonic IC Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 24. New Products and Potential Entrants

Table 25. Mergers & Acquisitions, Expansion

Table 26. Global Photonic IC Sales by Geographic Region (2019-2024) & (K Units)

Table 27. Global Photonic IC Sales Market Share Geographic Region (2019-2024)

Table 28. Global Photonic IC Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 29. Global Photonic IC Revenue Market Share by Geographic Region (2019-2024)

Table 30. Global Photonic IC Sales by Country/Region (2019-2024) & (K Units)

Table 31. Global Photonic IC Sales Market Share by Country/Region (2019-2024)

- Table 32. Global Photonic IC Revenue by Country/Region (2019-2024) & (\$ millions)
- Table 33. Global Photonic IC Revenue Market Share by Country/Region (2019-2024)
- Table 34. Americas Photonic IC Sales by Country (2019-2024) & (K Units)
- Table 35. Americas Photonic IC Sales Market Share by Country (2019-2024)
- Table 36. Americas Photonic IC Revenue by Country (2019-2024) & (\$ Millions)
- Table 37. Americas Photonic IC Revenue Market Share by Country (2019-2024)
- Table 38. Americas Photonic IC Sales by Type (2019-2024) & (K Units)
- Table 39. Americas Photonic IC Sales by Application (2019-2024) & (K Units)
- Table 40. APAC Photonic IC Sales by Region (2019-2024) & (K Units)
- Table 41. APAC Photonic IC Sales Market Share by Region (2019-2024)
- Table 42. APAC Photonic IC Revenue by Region (2019-2024) & (\$ Millions)
- Table 43. APAC Photonic IC Revenue Market Share by Region (2019-2024)
- Table 44. APAC Photonic IC Sales by Type (2019-2024) & (K Units)
- Table 45. APAC Photonic IC Sales by Application (2019-2024) & (K Units)
- Table 46. Europe Photonic IC Sales by Country (2019-2024) & (K Units)
- Table 47. Europe Photonic IC Sales Market Share by Country (2019-2024)
- Table 48. Europe Photonic IC Revenue by Country (2019-2024) & (\$ Millions)
- Table 49. Europe Photonic IC Revenue Market Share by Country (2019-2024)
- Table 50. Europe Photonic IC Sales by Type (2019-2024) & (K Units)
- Table 51. Europe Photonic IC Sales by Application (2019-2024) & (K Units)
- Table 52. Middle East & Africa Photonic IC Sales by Country (2019-2024) & (K Units)
- Table 53. Middle East & Africa Photonic IC Sales Market Share by Country (2019-2024)
- Table 54. Middle East & Africa Photonic IC Revenue by Country (2019-2024) & (\$ Millions)
- Table 55. Middle East & Africa Photonic IC Revenue Market Share by Country (2019-2024)
- Table 56. Middle East & Africa Photonic IC Sales by Type (2019-2024) & (K Units)
- Table 57. Middle East & Africa Photonic IC Sales by Application (2019-2024) & (K Units)
- Table 58. Key Market Drivers & Growth Opportunities of Photonic IC
- Table 59. Key Market Challenges & Risks of Photonic IC
- Table 60. Key Industry Trends of Photonic IC
- Table 61. Photonic IC Raw Material
- Table 62. Key Suppliers of Raw Materials
- Table 63. Photonic IC Distributors List
- Table 64. Photonic IC Customer List
- Table 65. Global Photonic IC Sales Forecast by Region (2025-2030) & (K Units)
- Table 66. Global Photonic IC Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 67. Americas Photonic IC Sales Forecast by Country (2025-2030) & (K Units)

- Table 68. Americas Photonic IC Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 69. APAC Photonic IC Sales Forecast by Region (2025-2030) & (K Units)
- Table 70. APAC Photonic IC Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 71. Europe Photonic IC Sales Forecast by Country (2025-2030) & (K Units)
- Table 72. Europe Photonic IC Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 73. Middle East & Africa Photonic IC Sales Forecast by Country (2025-2030) & (K Units)
- Table 74. Middle East & Africa Photonic IC Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 75. Global Photonic IC Sales Forecast by Type (2025-2030) & (K Units)
- Table 76. Global Photonic IC Revenue Forecast by Type (2025-2030) & (\$ Millions)
- Table 77. Global Photonic IC Sales Forecast by Application (2025-2030) & (K Units)
- Table 78. Global Photonic IC Revenue Forecast by Application (2025-2030) & (\$ Millions)
- Table 79. Infinera Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors
- Table 80. Infinera Photonic IC Product Portfolios and Specifications
- Table 81. Infinera Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 82. Infinera Main Business
- Table 83. Infinera Latest Developments
- Table 84. Alcatel-Lucent Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors
- Table 85. Alcatel-Lucent Photonic IC Product Portfolios and Specifications
- Table 86. Alcatel-Lucent Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 87. Alcatel-Lucent Main Business
- Table 88. Alcatel-Lucent Latest Developments
- Table 89. Avago Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors
- Table 90. Avago Photonic IC Product Portfolios and Specifications
- Table 91. Avago Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 92. Avago Main Business
- Table 93. Avago Latest Developments
- Table 94. NeoPhotonics Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors
- Table 95. NeoPhotonics Photonic IC Product Portfolios and Specifications

Table 96. NeoPhotonics Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 97. NeoPhotonics Main Business

Table 98. NeoPhotonics Latest Developments

Table 99. HUAWEI Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 100. HUAWEI Photonic IC Product Portfolios and Specifications

Table 101. HUAWEI Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 102. HUAWEI Main Business

Table 103. HUAWEI Latest Developments

Table 104. Cisco Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 105. Cisco Photonic IC Product Portfolios and Specifications

Table 106. Cisco Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 107. Cisco Main Business

Table 108. Cisco Latest Developments

Table 109. Ciena Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 110. Ciena Photonic IC Product Portfolios and Specifications

Table 111. Ciena Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 112. Ciena Main Business

Table 113. Ciena Latest Developments

Table 114. Intel Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 115. Intel Photonic IC Product Portfolios and Specifications

Table 116. Intel Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 117. Intel Main Business

Table 118. Intel Latest Developments

Table 119. Oclaro Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 120. Oclaro Photonic IC Product Portfolios and Specifications

Table 121. Oclaro Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 122. Oclaro Main Business

Table 123. Oclaro Latest Developments

Table 124. JDS Uniphase Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 125. JDS Uniphase Photonic IC Product Portfolios and Specifications

Table 126. JDS Uniphase Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 127. JDS Uniphase Main Business

Table 128. JDS Uniphase Latest Developments

Table 129. Finisar Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 130. Finisar Photonic IC Product Portfolios and Specifications

Table 131. Finisar Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 132. Finisar Main Business

Table 133. Finisar Latest Developments

Table 134. Luxtera Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 135. Luxtera Photonic IC Product Portfolios and Specifications

Table 136. Luxtera Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 137. Luxtera Main Business

Table 138. Luxtera Latest Developments

Table 139. Mellanox Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 140. Mellanox Photonic IC Product Portfolios and Specifications

Table 141. Mellanox Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 142. Mellanox Main Business

Table 143. Mellanox Latest Developments

Table 144. OneChip Basic Information, Photonic IC Manufacturing Base, Sales Area and Its Competitors

Table 145. OneChip Photonic IC Product Portfolios and Specifications

Table 146. OneChip Photonic IC Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 147. OneChip Main Business

Table 148. OneChip Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Photonic IC
- Figure 2. Photonic IC Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Photonic IC Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Photonic IC Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Photonic IC Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Monolithic Integration
- Figure 10. Product Picture of Hybrid Integration
- Figure 11. Product Picture of Module Integration
- Figure 12. Global Photonic IC Sales Market Share by Type in 2023
- Figure 13. Global Photonic IC Revenue Market Share by Type (2019-2024)
- Figure 14. Photonic IC Consumed in Optical Communication
- Figure 15. Global Photonic IC Market: Optical Communication (2019-2024) & (K Units)
- Figure 16. Photonic IC Consumed in Sensing
- Figure 17. Global Photonic IC Market: Sensing (2019-2024) & (K Units)
- Figure 18. Photonic IC Consumed in Biophotonics
- Figure 19. Global Photonic IC Market: Biophotonics (2019-2024) & (K Units)
- Figure 20. Photonic IC Consumed in Others
- Figure 21. Global Photonic IC Market: Others (2019-2024) & (K Units)
- Figure 22. Global Photonic IC Sales Market Share by Application (2023)
- Figure 23. Global Photonic IC Revenue Market Share by Application in 2023
- Figure 24. Photonic IC Sales Market by Company in 2023 (K Units)
- Figure 25. Global Photonic IC Sales Market Share by Company in 2023
- Figure 26. Photonic IC Revenue Market by Company in 2023 (\$ Million)
- Figure 27. Global Photonic IC Revenue Market Share by Company in 2023
- Figure 28. Global Photonic IC Sales Market Share by Geographic Region (2019-2024)
- Figure 29. Global Photonic IC Revenue Market Share by Geographic Region in 2023
- Figure 30. Americas Photonic IC Sales 2019-2024 (K Units)
- Figure 31. Americas Photonic IC Revenue 2019-2024 (\$ Millions)
- Figure 32. APAC Photonic IC Sales 2019-2024 (K Units)
- Figure 33. APAC Photonic IC Revenue 2019-2024 (\$ Millions)
- Figure 34. Europe Photonic IC Sales 2019-2024 (K Units)
- Figure 35. Europe Photonic IC Revenue 2019-2024 (\$ Millions)

- Figure 36. Middle East & Africa Photonic IC Sales 2019-2024 (K Units)
- Figure 37. Middle East & Africa Photonic IC Revenue 2019-2024 (\$ Millions)
- Figure 38. Americas Photonic IC Sales Market Share by Country in 2023
- Figure 39. Americas Photonic IC Revenue Market Share by Country in 2023
- Figure 40. Americas Photonic IC Sales Market Share by Type (2019-2024)
- Figure 41. Americas Photonic IC Sales Market Share by Application (2019-2024)
- Figure 42. United States Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 43. Canada Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 44. Mexico Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 45. Brazil Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 46. APAC Photonic IC Sales Market Share by Region in 2023
- Figure 47. APAC Photonic IC Revenue Market Share by Regions in 2023
- Figure 48. APAC Photonic IC Sales Market Share by Type (2019-2024)
- Figure 49. APAC Photonic IC Sales Market Share by Application (2019-2024)
- Figure 50. China Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 51. Japan Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 52. South Korea Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 53. Southeast Asia Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 54. India Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 55. Australia Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 56. China Taiwan Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 57. Europe Photonic IC Sales Market Share by Country in 2023
- Figure 58. Europe Photonic IC Revenue Market Share by Country in 2023
- Figure 59. Europe Photonic IC Sales Market Share by Type (2019-2024)
- Figure 60. Europe Photonic IC Sales Market Share by Application (2019-2024)
- Figure 61. Germany Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 62. France Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 63. UK Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 64. Italy Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 65. Russia Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 66. Middle East & Africa Photonic IC Sales Market Share by Country in 2023
- Figure 67. Middle East & Africa Photonic IC Revenue Market Share by Country in 2023
- Figure 68. Middle East & Africa Photonic IC Sales Market Share by Type (2019-2024)
- Figure 69. Middle East & Africa Photonic IC Sales Market Share by Application (2019-2024)
- Figure 70. Egypt Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 71. South Africa Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 72. Israel Photonic IC Revenue Growth 2019-2024 (\$ Millions)
- Figure 73. Turkey Photonic IC Revenue Growth 2019-2024 (\$ Millions)

Figure 74. GCC Country Photonic IC Revenue Growth 2019-2024 (\$ Millions)

Figure 75. Manufacturing Cost Structure Analysis of Photonic IC in 2023

Figure 76. Manufacturing Process Analysis of Photonic IC

Figure 77. Industry Chain Structure of Photonic IC

Figure 78. Channels of Distribution

Figure 79. Global Photonic IC Sales Market Forecast by Region (2025-2030)

Figure 80. Global Photonic IC Revenue Market Share Forecast by Region (2025-2030)

Figure 81. Global Photonic IC Sales Market Share Forecast by Type (2025-2030)

Figure 82. Global Photonic IC Revenue Market Share Forecast by Type (2025-2030)

Figure 83. Global Photonic IC Sales Market Share Forecast by Application (2025-2030)

Figure 84. Global Photonic IC Revenue Market Share Forecast by Application
(2025-2030)

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