

Asia Pacific Photonic Design Automation Market Forecast to 2030 - Regional Analysis - by Component (Solution and Service), Deployment (On-Premise and Cloud), Organization Size (SMEs and Large Enterprises), and Application (Academic Research and Industrial Research & Manufacturing)

https://marketpublishers.com/r/A442C8CCF27FEN.html

Date: July 2024

Pages: 81

Price: US\$ 2,485.00 (Single User License)

ID: A442C8CCF27FEN

Abstracts

The Asia Pacific photonic design automation market was valued at US\$ 458.84 million in 2022 and is expected to reach US\$ 1,421.68 million by 2030; it is estimated to register at a CAGR of 15.2% from 2022 to 2030.

Growing Demand for Automation Boosts Asia Pacific Photonic Design Automation Market

Automation enables efficient and streamlined design processes, leading to improved productivity and reduced time-to-market. The field of photonic design automation is experiencing a rise in demand owing to the increasing need for automation across various industries, including manufacturing. This increasing demand for automation is a key driver for the Asia Pacific photonic design automation market. Automation plays a crucial role in enabling more efficient and streamlined design processes within the field of photonics. By automating certain aspects of the design workflow, such as layout generation, component placement, and optimization, designers can significantly enhance their productivity and reduce the time it takes to bring new photonic products to market. The benefits of automation in photonic design are manifold. It allows designers to explore a wider design space and quickly iterate through different design options, leading to improved performance and higher-quality designs. Automation also helps reduce human errors and ensures consistency in the design process, resulting in more



reliable and robust photonic devices.

Furthermore, automation in photonic design enables designers to leverage advanced algorithms and optimization techniques to achieve optimal designs. By automating the design optimization process, designers can maximize the performance, efficiency, and manufacturability of photonic devices, ultimately leading to improved product quality and customer satisfaction. For instance, according to a report published by Salesforce in June 2022, there has been a significant surge in the demand for automation among business teams in more than 90% of organizations. This increase in demand has been observed over the past two years, highlighting a growing recognition of the benefits and value that automation can bring to businesses across various industries. The report sheds light on the rising trend of organizations seeking to streamline their processes, improve efficiency, and optimize productivity by adopting automation technologies. This data underscores the growing importance of automation as a strategic tool for organizations looking to stay driven and meet the evolving needs of their customers and stakeholders.

Asia Pacific Photonic Design Automation Market Overview

The market in Asia Pacific is segmented into Japan, China, South Korea, Taiwan, and the Rest of Asia Pacific. Asia Pacific is a significant player in the photonic design automation market, characterized by its rapid growth and technological advancements. With a strong emphasis on innovation and a thriving semiconductor industry, the region has become a hub for cutting-edge photonics technologies. One of the major factors driving the Asia Pacific photonic design automation market is the region's dominance in the semiconductor industry. Countries in Asia Pacific, such as China, South Korea, and Taiwan, have emerged as a global leader in semiconductor manufacturing and chip design. This dominance in the semiconductor supply chain provides a strong foundation for the development and adoption of photonic design automation technologies.

Asia Pacific also boasts a large and growing market for photonic design automation solutions. Various industries, including telecommunications, healthcare, consumer electronics, and automotive, drive the demand for these solutions. The increasing adoption of photonics technologies in these sectors fuels the growth of the photonic design automation market in the region. Furthermore, government initiatives and policies are crucial in promoting the development and adoption of photonic design automation technologies in Asia Pacific. Governments in countries such as Japan, China, and South Korea have implemented strategic plans and funding programs to support the growth of the photonics industry. These initiatives aim to enhance research



capabilities, foster collaboration between academia and industry, and create a favorable environment for innovation and entrepreneurship.

Asia Pacific Photonic Design Automation Market Revenue and Forecast to 2030 (US\$ Million)

Asia Pacific Photonic Design Automation Market Segmentation

The Asia Pacific photonic design automation market is segmented based on component, deployment, organization size, application, and country.

Based on component, the Asia Pacific photonic design automation market photonic design automation market is bifurcated into solution and service. The solution segment held the largest share in 2022.

In terms of deployment, the Asia Pacific photonic design automation market photonic design automation market is bifurcated into on-premise and cloud. The on-premise segment held a larger share in 2022.

By organization size, the Asia Pacific photonic design automation market photonic design automation market is bifurcated into SMEs and large enterprises. The large enterprises segment held a larger share in 2022.

In terms of application, the Asia Pacific photonic design automation market photonic design automation market is bifurcated into academic research and industrial research & manufacturing. The industrial research & manufacturing segment held a larger share in 2022.

Based on country, the Asia Pacific photonic design automation market is categorized into Taiwan, China, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific photonic design automation market in 2022.

Optiwave Systems Inc, Luceda Photonics, Cadence Design Systems Inc, Siemens AG, and Synopsys Inc are some of the leading companies operating in the Asia Pacific photonic design automation market.



Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Ecosystem Analysis
 - 4.2.1 List of Vendors in the Value Chain:

5. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET - KEY MARKET DYNAMICS

- 5.1 Asia Pacific Photonic Design Automation Market Key Market Dynamics
- 5.2 Market Drivers
 - 5.2.1 Growing Demand for Automation
 - 5.2.2 Increasing Need for Efficiency and Accuracy
- 5.3 Market Restraints
- 5.3.1 Lack of Awareness Regarding Benefits and Capabilities of Photonic Design Automation
- 5.4 Market Opportunities
 - 5.4.1 Advancements in Photonic Devices
 - 5.4.2 Emphasis on High Performance and Environmentally Sustainable Solutions
- 5.5 Future Trends
 - 5.5.1 Integration of Photonics in Electronic Design Automation (EDA) Tools



5.5.2 Advancements in Compact Modelling and Simulation Tools5.6 Impact of Drivers and Restraints:

6. PHOTONIC DESIGN AUTOMATION MARKET - ASIA PACIFIC MARKET ANALYSIS

- 6.1 Asia Pacific Photonic Design Automation Market Revenue (US\$ Million), 2022 -2030
- 6.2 Asia Pacific Photonic Design Automation Market Forecast and Analysis

7. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET ANALYSIS - COMPONENT

- 7.1 Solution
 - 7.1.1 Overview
 - 7.1.2 Solution Market, Revenue and Forecast to 2030 (US\$ Million)
- 7.2 Service
 - 7.2.1 Overview
 - 7.2.2 Service Market, Revenue and Forecast to 2030 (US\$ Million)

8. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET ANALYSIS - DEPLOYMENT

- 8.1 On-Premise
 - 8.1.1 Overview
 - 8.1.2 On-Premise Market, Revenue and Forecast to 2030 (US\$ Million)
- 8.2 Cloud
 - 8.2.1 Overview
 - 8.2.2 Cloud Market, Revenue and Forecast to 2030 (US\$ Million)

9. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET ANALYSIS - ORGANIZATION SIZE

- 9.1 SMEs
 - 9.1.1 Overview
 - 9.1.2 SMEs Market, Revenue and Forecast to 2030 (US\$ Million)
- 9.2 Large Enterprises
 - 9.2.1 Overview
 - 9.2.2 Large Enterprises Market, Revenue and Forecast to 2030 (US\$ Million)



10. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET ANALYSIS - APPLICATION

- 10.1 Academic Research
 - 10.1.1 Overview
- 10.1.2 Academic Research Market, Revenue and Forecast to 2030 (US\$ Million)
- 10.2 Industrial Research & Manufacturing
 - 10.2.1 Overview
- 10.2.2 Industrial Research & Manufacturing Market, Revenue and Forecast to 2030 (US\$ Million)

11. ASIA PACIFIC PHOTONIC DESIGN AUTOMATION MARKET - COUNTRY ANALYSIS

- 11.1 Asia Pacific
- 11.1.1 Asia Pacific Photonic Design Automation Market Revenue and Forecasts and Analysis By Country
- 11.1.1.1 Asia Pacific Photonic Design Automation Market Revenue and Forecasts and Analysis By Country
- 11.1.1.2 China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 11.1.1.2.1 China Photonic Design Automation Market Breakdown, by Component
 - 11.1.1.2.2 China Photonic Design Automation Market Breakdown, by Deployment
- 11.1.2.3 China Photonic Design Automation Market Breakdown, by Organization Size
 - 11.1.1.2.4 China Photonic Design Automation Market Breakdown, by Application
- 11.1.1.3 Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 11.1.1.3.1 Japan Photonic Design Automation Market Breakdown, by Component
 - 11.1.1.3.2 Japan Photonic Design Automation Market Breakdown, by Deployment
- 11.1.3.3 Japan Photonic Design Automation Market Breakdown, by Organization Size
 - 11.1.1.3.4 Japan Photonic Design Automation Market Breakdown, by Application
- 11.1.1.4 South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- 11.1.1.4.1 South Korea Photonic Design Automation Market Breakdown, by Component
 - 11.1.1.4.2 South Korea Photonic Design Automation Market Breakdown, by



Deployment

- 11.1.1.4.3 South Korea Photonic Design Automation Market Breakdown, by Organization Size
- 11.1.1.4.4 South Korea Photonic Design Automation Market Breakdown, by Application
- 11.1.1.5 Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
 - 11.1.1.5.1 Taiwan Photonic Design Automation Market Breakdown, by Component
 - 11.1.1.5.2 Taiwan Photonic Design Automation Market Breakdown, by Deployment
- 11.1.5.3 Taiwan Photonic Design Automation Market Breakdown, by Organization Size
 - 11.1.1.5.4 Taiwan Photonic Design Automation Market Breakdown, by Application
- 11.1.1.6 Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- 11.1.1.6.1 Rest of Asia Pacific Photonic Design Automation Market Breakdown, by Component
- 11.1.1.6.2 Rest of Asia Pacific Photonic Design Automation Market Breakdown, by Deployment
- 11.1.1.6.3 Rest of Asia Pacific Photonic Design Automation Market Breakdown, by Organization Size
- 11.1.1.6.4 Rest of Asia Pacific Photonic Design Automation Market Breakdown, by Application

12. INDUSTRY LANDSCAPE

- 12.1 Overview
- 12.2 Market Initiative
- 12.2 New Product Development
- 12.3 Merger and Acquisition

13. COMPANY PROFILES

- 13.1 Optiwave Systems Inc
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments



- 13.2 Luceda Photonics
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Cadence Design Systems Inc
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 Siemens AG
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Synopsys Inc
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments

14. APPENDIX

14.1 Word Index



List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Photonic Design Automation Market Segmentation

Table 2. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Million)

Table 3. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Million) - Component

Table 4. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Million) - Deployment

Table 5. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Million) - Organization Size

Table 6. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Million) - Application

Table 7. Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Country

Table 8. China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Component

Table 9. China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Deployment

Table 10. China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Organization Size

Table 11. China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Application

Table 12. Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Component

Table 13. Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Deployment

Table 14. Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Organization Size

Table 15. Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Application

Table 16. South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Component

Table 17. South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Deployment

Table 18. South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Organization Size



Table 19. South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Application

Table 20. Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Component

Table 21. Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Deployment

Table 22. Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Organization Size

Table 23. Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Application

Table 24. Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Component

Table 25. Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Deployment

Table 26. Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Organization Size

Table 27. Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn) - By Application

Table 28. List of Abbreviation12. List of Figures

Figure 1. Asia Pacific Photonic Design Automation Market Segmentation, By Country

Figure 2. Ecosystem: Asia Pacific Photonic Design Automation Market

Figure 3. Impact Analysis of Drivers and Restraints

Figure 4. Asia Pacific Photonic Design Automation Market Revenue (US\$ Million), 2022 - 2030

Figure 5. Asia Pacific Photonic Design Automation Market Share (%) - Component, 2022 and 2030

Figure 6. Solution Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 7. Service Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 8. Asia Pacific Photonic Design Automation Market Share (%) - Deployment, 2022 and 2030

Figure 9. On-Premise Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 10. Cloud Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 11. Asia Pacific Photonic Design Automation Market Share (%) - Organization Size, 2022 and 2030

Figure 12. SMEs Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 13. Large Enterprises Market Revenue and Forecasts to 2030 (US\$ Million)

Figure 14. Asia Pacific Photonic Design Automation Market Share (%) - Application, 2022 and 2030

Figure 15. Academic Research Market Revenue and Forecasts to 2030 (US\$ Million)



- Figure 16. Industrial Research & Manufacturing Market Revenue and Forecasts to 2030 (US\$ Million)
- Figure 17. Asia Pacific Photonic Design Automation Market- Revenue by Key Countries 2022 (US\$ Million)
- Figure 18. Asia Pacific Photonic Design Automation Market Breakdown by Key Countries, 2022 and 2030 (%)
- Figure 19. China Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- Figure 20. Japan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- Figure 21. South Korea Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- Figure 22. Taiwan Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)
- Figure 23. Rest of Asia Pacific Photonic Design Automation Market Revenue and Forecasts to 2030 (US\$ Mn)



I would like to order

Product name: Asia Pacific Photonic Design Automation Market Forecast to 2030 - Regional Analysis -

by Component (Solution and Service), Deployment (On-Premise and Cloud),

Organization Size (SMEs and Large Enterprises), and Application (Academic Research

and Industrial Research & Manufacturing)

Product link: https://marketpublishers.com/r/A442C8CCF27FEN.html

Price: US\$ 2,485.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A442C8CCF27FEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html



To place an order via fax simply print this form, fill in the information below and fax the completed form to $+44\ 20\ 7900\ 3970$