

Technology Computer-aided Design (TCAD) Market, Global Outlook and Forecast 2022-2028

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Abstracts

Technology computer-aided design (technology CAD or TCAD) is a branch of electronic design automation that models semiconductor fabrication and semiconductor device operation. The modeling of the fabrication is termed Process TCAD, while the modeling of the device operation is termed Device TCAD. Included are the modelling of process steps (such as diffusion and ion implantation), and modelling of the behavior of the electrical devices based on fundamental physics, such as the doping profiles of the devices. TCAD may also include the creation of compact models (such as the well-known SPICE transistor models), which try to capture the electrical behavior of such devices but do not generally derive them from the underlying physics...

This report contains market size and forecasts of Technology Computer-aided Design (TCAD) in Global, including the following market information:

Global Technology Computer-aided Design (TCAD) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global top five companies in 2021 (%)

The global Technology Computer-aided Design (TCAD) market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Conventional TCAD Segment to Reach \$ Million by 2028, with a % CAGR in next six

years.

The global key manufacturers of Technology Computer-aided Design (TCAD) include Synopsys, Silvaco, Crosslight, Cogenda Software and Global TCAD Solutions, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Technology Computer-aided Design (TCAD) companies, and industry experts on this industry, involving the revenue, demand, product type, recent developments and plans, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Technology Computer-aided Design (TCAD) Market, by Type, 2017-2022, 2023-2028 (\$ millions)

Global Technology Computer-aided Design (TCAD) Market Segment Percentages, by Type, 2021 (%)

Conventional TCAD

Atomistic TCAD

Global Technology Computer-aided Design (TCAD) Market, by Application, 2017-2022, 2023-2028 (\$ millions)

Global Technology Computer-aided Design (TCAD) Market Segment Percentages, by Application, 2021 (%)

Integrated Device Manufacturers

Fabless Semiconductor Companies

Colleges

Global Technology Computer-aided Design (TCAD) Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions)

Global Technology Computer-aided Design (TCAD) Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Technology Computer-aided Design (TCAD) revenues in global market, 2017-2022 (estimated), (\$ millions)

Key companies Technology Computer-aided Design (TCAD) revenues share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Synopsys

Silvaco

Crosslight

Cogenda Software

Global TCAD Solutions

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Technology Computer-aided Design (TCAD) Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Technology Computer-aided Design (TCAD) Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL TECHNOLOGY COMPUTER-AIDED DESIGN (TCAD) OVERALL MARKET SIZE

- 2.1 Global Technology Computer-aided Design (TCAD) Market Size: 2021 VS 2028
- 2.2 Global Technology Computer-aided Design (TCAD) Market Size, Prospects & Forecasts: 2017-2028
- 2.3 Key Market Trends, Opportunity, Drivers and Restraints
 - 2.3.1 Market Opportunities & Trends
 - 2.3.2 Market Drivers
 - 2.3.3 Market Restraints

3 COMPANY LANDSCAPE

- 3.1 Top Technology Computer-aided Design (TCAD) Players in Global Market
- 3.2 Top Global Technology Computer-aided Design (TCAD) Companies Ranked by Revenue
- 3.3 Global Technology Computer-aided Design (TCAD) Revenue by Companies
- 3.4 Top 3 and Top 5 Technology Computer-aided Design (TCAD) Companies in Global Market, by Revenue in 2021
- 3.5 Global Companies Technology Computer-aided Design (TCAD) Product Type
- 3.6 Tier 1, Tier 2 and Tier 3 Technology Computer-aided Design (TCAD) Players in Global Market
 - 3.6.1 List of Global Tier 1 Technology Computer-aided Design (TCAD) Companies

3.6.2 List of Global Tier 2 and Tier 3 Technology Computer-aided Design (TCAD) Companies

4 MARKET SIGHTS BY PRODUCT

4.1 Overview

4.1.1 by Type - Global Technology Computer-aided Design (TCAD) Market Size Markets, 2021 & 2028

4.1.2 Conventional TCAD

4.1.3 Atomistic TCAD

4.2 By Type - Global Technology Computer-aided Design (TCAD) Revenue & Forecasts

4.2.1 By Type - Global Technology Computer-aided Design (TCAD) Revenue, 2017-2022

4.2.2 By Type - Global Technology Computer-aided Design (TCAD) Revenue, 2023-2028

4.2.3 By Type - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Technology Computer-aided Design (TCAD) Market Size, 2021 & 2028

5.1.2 Integrated Device Manufacturers

5.1.3 Fabless Semiconductor Companies

5.1.4 Colleges

5.2 By Application - Global Technology Computer-aided Design (TCAD) Revenue & Forecasts

5.2.1 By Application - Global Technology Computer-aided Design (TCAD) Revenue, 2017-2022

5.2.2 By Application - Global Technology Computer-aided Design (TCAD) Revenue, 2023-2028

5.2.3 By Application - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global Technology Computer-aided Design (TCAD) Market Size, 2021 & 2028

6.2 By Region - Global Technology Computer-aided Design (TCAD) Revenue & Forecasts

6.2.1 By Region - Global Technology Computer-aided Design (TCAD) Revenue, 2017-2022

6.2.2 By Region - Global Technology Computer-aided Design (TCAD) Revenue, 2023-2028

6.2.3 By Region - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

6.3 North America

6.3.1 By Country - North America Technology Computer-aided Design (TCAD) Revenue, 2017-2028

6.3.2 US Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.3.3 Canada Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.3.4 Mexico Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4 Europe

6.4.1 By Country - Europe Technology Computer-aided Design (TCAD) Revenue, 2017-2028

6.4.2 Germany Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.3 France Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.4 U.K. Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.5 Italy Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.6 Russia Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.7 Nordic Countries Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.4.8 Benelux Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.5 Asia

6.5.1 By Region - Asia Technology Computer-aided Design (TCAD) Revenue, 2017-2028

6.5.2 China Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.5.3 Japan Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.5.4 South Korea Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.5.5 Southeast Asia Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.5.6 India Technology Computer-aided Design (TCAD) Market Size, 2017-2028

6.6 South America

6.6.1 By Country - South America Technology Computer-aided Design (TCAD) Revenue, 2017-2028

6.6.2 Brazil Technology Computer-aided Design (TCAD) Market Size, 2017-2028

- 6.6.3 Argentina Technology Computer-aided Design (TCAD) Market Size, 2017-2028
- 6.7 Middle East & Africa
 - 6.7.1 By Country - Middle East & Africa Technology Computer-aided Design (TCAD) Revenue, 2017-2028
 - 6.7.2 Turkey Technology Computer-aided Design (TCAD) Market Size, 2017-2028
 - 6.7.3 Israel Technology Computer-aided Design (TCAD) Market Size, 2017-2028
 - 6.7.4 Saudi Arabia Technology Computer-aided Design (TCAD) Market Size, 2017-2028
 - 6.7.5 UAE Technology Computer-aided Design (TCAD) Market Size, 2017-2028

7 PLAYERS PROFILES

- 7.1 Synopsys
 - 7.1.1 Synopsys Corporate Summary
 - 7.1.2 Synopsys Business Overview
 - 7.1.3 Synopsys Technology Computer-aided Design (TCAD) Major Product Offerings
 - 7.1.4 Synopsys Technology Computer-aided Design (TCAD) Revenue in Global Market (2017-2022)
 - 7.1.5 Synopsys Key News
- 7.2 Silvaco
 - 7.2.1 Silvaco Corporate Summary
 - 7.2.2 Silvaco Business Overview
 - 7.2.3 Silvaco Technology Computer-aided Design (TCAD) Major Product Offerings
 - 7.2.4 Silvaco Technology Computer-aided Design (TCAD) Revenue in Global Market (2017-2022)
 - 7.2.5 Silvaco Key News
- 7.3 Crosslight
 - 7.3.1 Crosslight Corporate Summary
 - 7.3.2 Crosslight Business Overview
 - 7.3.3 Crosslight Technology Computer-aided Design (TCAD) Major Product Offerings
 - 7.3.4 Crosslight Technology Computer-aided Design (TCAD) Revenue in Global Market (2017-2022)
 - 7.3.5 Crosslight Key News
- 7.4 Cogenda Software
 - 7.4.1 Cogenda Software Corporate Summary
 - 7.4.2 Cogenda Software Business Overview
 - 7.4.3 Cogenda Software Technology Computer-aided Design (TCAD) Major Product Offerings
 - 7.4.4 Cogenda Software Technology Computer-aided Design (TCAD) Revenue in

Global Market (2017-2022)

7.4.5 Cogenda Software Key News

7.5 Global TCAD Solutions

7.5.1 Global TCAD Solutions Corporate Summary

7.5.2 Global TCAD Solutions Business Overview

7.5.3 Global TCAD Solutions Technology Computer-aided Design (TCAD) Major
Product Offerings

7.5.4 Global TCAD Solutions Technology Computer-aided Design (TCAD) Revenue in
Global Market (2017-2022)

7.5.5 Global TCAD Solutions Key News

8 CONCLUSION

9 APPENDIX

9.1 Note

9.2 Examples of Clients

9.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Technology Computer-aided Design (TCAD) Market Opportunities & Trends in Global Market

Table 2. Technology Computer-aided Design (TCAD) Market Drivers in Global Market

Table 3. Technology Computer-aided Design (TCAD) Market Restraints in Global Market

Table 4. Key Players of Technology Computer-aided Design (TCAD) in Global Market

Table 5. Top Technology Computer-aided Design (TCAD) Players in Global Market, Ranking by Revenue (2021)

Table 6. Global Technology Computer-aided Design (TCAD) Revenue by Companies, (US\$, Mn), 2017-2022

Table 7. Global Technology Computer-aided Design (TCAD) Revenue Share by Companies, 2017-2022

Table 8. Global Companies Technology Computer-aided Design (TCAD) Product Type

Table 9. List of Global Tier 1 Technology Computer-aided Design (TCAD) Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Technology Computer-aided Design (TCAD) Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Technology Computer-aided Design (TCAD) Revenue in Global (US\$, Mn), 2017-2022

Table 13. By Type - Technology Computer-aided Design (TCAD) Revenue in Global (US\$, Mn), 2023-2028

Table 14. By Application – Global Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2021 & 2028

Table 15. By Application - Technology Computer-aided Design (TCAD) Revenue in Global (US\$, Mn), 2017-2022

Table 16. By Application - Technology Computer-aided Design (TCAD) Revenue in Global (US\$, Mn), 2023-2028

Table 17. By Region – Global Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2021 & 2028

Table 18. By Region - Global Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), 2017-2022

Table 19. By Region - Global Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), 2023-2028

Table 20. By Country - North America Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2022

Table 21. By Country - North America Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2023-2028

Table 22. By Country - Europe Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2022

Table 23. By Country - Europe Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2023-2028

Table 24. By Region - Asia Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2022

Table 25. By Region - Asia Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2023-2028

Table 26. By Country - South America Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - South America Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - Middle East & Africa Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2022

Table 29. By Country - Middle East & Africa Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2023-2028

Table 30. Synopsys Corporate Summary

Table 31. Synopsys Technology Computer-aided Design (TCAD) Product Offerings

Table 32. Synopsys Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), (2017-2022)

Table 33. Silvaco Corporate Summary

Table 34. Silvaco Technology Computer-aided Design (TCAD) Product Offerings

Table 35. Silvaco Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), (2017-2022)

Table 36. Crosslight Corporate Summary

Table 37. Crosslight Technology Computer-aided Design (TCAD) Product Offerings

Table 38. Crosslight Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), (2017-2022)

Table 39. Cogenda Software Corporate Summary

Table 40. Cogenda Software Technology Computer-aided Design (TCAD) Product Offerings

Table 41. Cogenda Software Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), (2017-2022)

Table 42. Global TCAD Solutions Corporate Summary

Table 43. Global TCAD Solutions Technology Computer-aided Design (TCAD) Product

Offerings

Table 44. Global TCAD Solutions Technology Computer-aided Design (TCAD) Revenue (US\$, Mn), (2017-2022)

List Of Figures

LIST OF FIGURES

Figure 1. Technology Computer-aided Design (TCAD) Segment by Type in 2021

Figure 2. Technology Computer-aided Design (TCAD) Segment by Application in 2021

Figure 3. Global Technology Computer-aided Design (TCAD) Market Overview: 2021

Figure 4. Key Caveats

Figure 5. Global Technology Computer-aided Design (TCAD) Market Size: 2021 VS 2028 (US\$, Mn)

Figure 6. Global Technology Computer-aided Design (TCAD) Revenue, 2017-2028 (US\$, Mn)

Figure 7. The Top 3 and 5 Players Market Share by Technology Computer-aided Design (TCAD) Revenue in 2021

Figure 8. By Type - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 9. By Application - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 10. By Region - Global Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 11. By Country - North America Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 12. US Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 13. Canada Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 14. Mexico Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 15. By Country - Europe Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 16. Germany Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 17. France Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 18. U.K. Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 19. Italy Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 20. Russia Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn),

2017-2028

Figure 21. Nordic Countries Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 22. Benelux Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 23. By Region - Asia Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 24. China Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 25. Japan Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 26. South Korea Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 27. Southeast Asia Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 28. India Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 29. By Country - South America Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 30. Brazil Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 31. Argentina Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 32. By Country - Middle East & Africa Technology Computer-aided Design (TCAD) Revenue Market Share, 2017-2028

Figure 33. Turkey Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 34. Israel Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 35. Saudi Arabia Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 36. UAE Technology Computer-aided Design (TCAD) Revenue, (US\$, Mn), 2017-2028

Figure 37. Synopsys Technology Computer-aided Design (TCAD) Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 38. Silvaco Technology Computer-aided Design (TCAD) Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 39. Crosslight Technology Computer-aided Design (TCAD) Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 40. Cogenda Software Technology Computer-aided Design (TCAD) Revenue
Year Over Year Growth (US\$, Mn) & (2017-2022)

Figure 41. Global TCAD Solutions Technology Computer-aided Design (TCAD)
Revenue Year Over Year Growth (US\$, Mn) & (2017-2022)

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