

Electronic Design Automation (Eda) Tools Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Computer-aided Engineering (CAE), Integrated Circuit Physical Design and Verification, Printed Circuit Board and Multi-chip Module (PCB and MCM), Semiconductor Intellectual Property (SIP), Services), By Deployment Modes (On-Premises, Cloud-Based), By End-Use

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Abstracts

The Electronic Design Automation (Eda) Tools Market is valued at USD 15.8 billion in 2025 and is projected to grow at a CAGR of 8.6% to reach USD 33.2 billion by 2034. The global Electronic Design Automation (EDA) tools market is witnessing significant growth, driven by the increasing complexity of semiconductor design, rapid advancements in chip manufacturing, and the growing adoption of AI and machine learning in circuit design. EDA tools are essential for designing and verifying integrated circuits (ICs), printed circuit boards (PCBs), and other electronic systems, enabling engineers to optimize performance, reduce design errors, and accelerate time-to-market. The rising demand for high-performance computing, IoT devices, and AI-driven applications is fueling the need for advanced EDA solutions. Additionally, the ongoing development of 5G networks, automotive electronics, and quantum computing is further pushing the market forward. As semiconductor companies and technology firms strive to innovate and scale production, EDA software plays a crucial role in streamlining the design and verification processes. The EDA tools market is experiencing rapid advancements, particularly in cloud-based design solutions and AI-driven automation. Cloud-based EDA platforms are gaining traction, allowing semiconductor designers to collaborate remotely, access scalable computing power, and reduce infrastructure

costs. AI-powered design tools are enhancing circuit optimization, automating layout generation, and improving verification processes, significantly reducing design cycle times. The expansion of advanced semiconductor nodes, such as 3nm and 2nm chips, is driving demand for more sophisticated EDA software capable of handling complex design requirements. Additionally, the growth of autonomous vehicles and AI-powered edge computing devices is increasing the need for high-efficiency and low-power semiconductor designs, further propelling the market. With increasing investments in semiconductor research and development, EDA vendors are focusing on enhancing simulation accuracy, power analysis, and design automation capabilities. The EDA tools market is expected to evolve with deeper integration of AI, quantum computing simulation, and chiplet-based design architectures. The rise of chiplet technology, which enables modular semiconductor design, will require advanced EDA solutions to optimize interconnectivity and performance. AI-driven generative design techniques will further automate the development of complex circuits, reducing human intervention and increasing design efficiency. Additionally, with the expansion of 6G research and AI-powered semiconductor applications, EDA tools will need to support even more complex simulation and validation processes. The increasing use of open-source EDA tools, driven by collaborative industry efforts, may challenge traditional proprietary solutions, fostering innovation and accessibility in semiconductor design. As semiconductor manufacturing processes become more intricate, the role of EDA software in ensuring efficiency, scalability, and accuracy will continue to expand, making it an indispensable tool in the rapidly advancing electronics industry.

Key Insights Electronic Design Automation (Eda) Tools Market

AI-Driven Design Automation: The integration of AI and machine learning in EDA tools is enabling automated circuit layout generation, predictive design optimization, and enhanced verification accuracy.

Cloud-Based EDA Solutions: The shift toward cloud-based EDA platforms is facilitating remote collaboration, scalability, and cost efficiency for semiconductor designers worldwide.

Chiplet-Based Semiconductor Design: The adoption of chiplet technology is driving the need for advanced EDA tools that optimize modular semiconductor architectures and interconnectivity.

Quantum Computing Simulation: The development of quantum computing is spurring the demand for specialized EDA tools capable of simulating quantum

circuits and optimizing quantum chip design.

Open-Source EDA Tools: The increasing adoption of open-source EDA software is fostering innovation, collaboration, and cost-effective alternatives to proprietary design solutions.

Growing Complexity of Semiconductor Design: The increasing intricacy of modern semiconductor architectures, including 3nm and 2nm nodes, is driving demand for more advanced EDA tools.

Rising Demand for AI and IoT Devices: The proliferation of AI-powered applications and IoT devices is fueling the need for high-performance, low-power semiconductor designs, boosting EDA adoption.

Advancements in 5G and 6G Technologies: The expansion of next-generation wireless networks is increasing the demand for specialized semiconductor components, requiring cutting-edge EDA software.

Investment in Autonomous Vehicles and Edge Computing: The development of AI-driven automotive electronics and edge computing devices is creating new opportunities for sophisticated EDA solutions.

High Cost and Complexity of EDA Software: The substantial investment required for advanced EDA tools, along with the complexity of integrating them into semiconductor design workflows, poses a challenge for smaller design firms and startups.

Electronic Design Automation (Eda) Tools Market Segmentation

By Type

Computer-aided Engineering (CAE)

Integrated Circuit Physical Design and Verification

Printed Circuit Board and Multi-chip Module (PCB and MCM)

Semiconductor Intellectual Property (SIP)

Services

By Deployment Modes

On-Premises

Cloud-Based

By End-Use

Aerospace and Defense

Automotive

Consumer Electronics

Industrial

Healthcare

Other End-Users

Key Companies Analysed

Siemens Aktiengesellschaft

Intel Corporation

Arrow company

Agnisys Inc.

Keysight Technologies Inc.

Synopsys Inc.

Cadence Design Systems Inc.

Forte Design Systems

Xilinx Inc.

ANSYS Inc.

Microsemi Corporation

National Instruments Corporation

JEDA Technologies Inc.

Mentor Graphic Corporation

Altair Engineering Inc.

AWR Corporation

Faraday&Future Inc.

Zuken Inc.

Magwel NV

Altium Limited

Silvaco Inc.

Lauterbach GmbH

Computer Simulation Technology AG

EnSilica Limited

Aldec Inc.

EMA Design Automation Inc.

ELECTRO-SYSTEM CO. LTD.

MunEDA GmbH

Intercept Technology Inc.

Labcenter Electronics Ltd.

Pulsic Limited

Electronic Design Automation (Eda) Tools Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Electronic Design Automation (Eda) Tools Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Electronic Design Automation (Eda) Tools market data and outlook to 2034

United States

Canada

Mexico

Europe — Electronic Design Automation (Eda) Tools market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Electronic Design Automation (Eda) Tools market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Electronic Design Automation (Eda) Tools market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Electronic Design Automation (Eda) Tools market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Electronic Design Automation (Eda) Tools value chain with secondary data from associations, government

publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Electronic Design Automation (Eda) Tools industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Electronic Design Automation (Eda) Tools Market Report

Global Electronic Design Automation (Eda) Tools market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Electronic Design Automation (Eda) Tools trade, costs, and supply chains

Electronic Design Automation (Eda) Tools market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Electronic Design Automation (Eda) Tools market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Electronic Design Automation (Eda) Tools market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Electronic Design Automation (Eda) Tools supply chain analysis

Electronic Design Automation (Eda) Tools trade analysis, Electronic Design Automation (Eda) Tools market price analysis, and Electronic Design Automation (Eda) Tools supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Electronic Design Automation (Eda) Tools market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

Contents

1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

2. GLOBAL ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET SUMMARY, 2025

- 2.1 Electronic Design Automation (Eda) Tools Industry Overview
 - 2.1.1 Global Electronic Design Automation (Eda) Tools Market Revenues (In US\$ billion)
- 2.2 Electronic Design Automation (Eda) Tools Market Scope
- 2.3 Research Methodology

3. ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET INSIGHTS, 2024-2034

- 3.1 Electronic Design Automation (Eda) Tools Market Drivers
- 3.2 Electronic Design Automation (Eda) Tools Market Restraints
- 3.3 Electronic Design Automation (Eda) Tools Market Opportunities
- 3.4 Electronic Design Automation (Eda) Tools Market Challenges
- 3.5 Tariff Impact on Global Electronic Design Automation (Eda) Tools Supply Chain Patterns

4. ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET ANALYTICS

- 4.1 Electronic Design Automation (Eda) Tools Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Electronic Design Automation (Eda) Tools Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Electronic Design Automation (Eda) Tools Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Electronic Design Automation (Eda) Tools Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Electronic Design Automation (Eda) Tools Market
 - 4.5.1 Electronic Design Automation (Eda) Tools Industry Attractiveness Index, 2025
 - 4.5.2 Electronic Design Automation (Eda) Tools Supplier Intelligence

- 4.5.3 Electronic Design Automation (Eda) Tools Buyer Intelligence
- 4.5.4 Electronic Design Automation (Eda) Tools Competition Intelligence
- 4.5.5 Electronic Design Automation (Eda) Tools Product Alternatives and Substitutes Intelligence
- 4.5.6 Electronic Design Automation (Eda) Tools Market Entry Intelligence

5. GLOBAL ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034

- 5.1 World Electronic Design Automation (Eda) Tools Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)
- 5.1 Global Electronic Design Automation (Eda) Tools Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)
- 5.2 Global Electronic Design Automation (Eda) Tools Sales Outlook and CAGR Growth By Deployment Modes, 2024- 2034 (\$ billion)
- 5.3 Global Electronic Design Automation (Eda) Tools Sales Outlook and CAGR Growth By End-Use, 2024- 2034 (\$ billion)
- 5.4 Global Electronic Design Automation (Eda) Tools Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

6. ASIA PACIFIC ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK

- 6.1 Asia Pacific Electronic Design Automation (Eda) Tools Market Insights, 2025
- 6.2 Asia Pacific Electronic Design Automation (Eda) Tools Market Revenue Forecast By Type, 2024- 2034 (USD billion)
- 6.3 Asia Pacific Electronic Design Automation (Eda) Tools Market Revenue Forecast By Deployment Modes, 2024- 2034 (USD billion)
- 6.4 Asia Pacific Electronic Design Automation (Eda) Tools Market Revenue Forecast By End-Use, 2024- 2034 (USD billion)
- 6.5 Asia Pacific Electronic Design Automation (Eda) Tools Market Revenue Forecast by Country, 2024- 2034 (USD billion)
 - 6.5.1 China Electronic Design Automation (Eda) Tools Market Size, Opportunities, Growth 2024- 2034
 - 6.5.2 India Electronic Design Automation (Eda) Tools Market Size, Opportunities, Growth 2024- 2034
 - 6.5.3 Japan Electronic Design Automation (Eda) Tools Market Size, Opportunities, Growth 2024- 2034

6.5.4 Australia Electronic Design Automation (Eda) Tools Market Size, Opportunities, Growth 2024- 2034

7. EUROPE ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034

7.1 Europe Electronic Design Automation (Eda) Tools Market Key Findings, 2025

7.2 Europe Electronic Design Automation (Eda) Tools Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Electronic Design Automation (Eda) Tools Market Size and Percentage Breakdown By Deployment Modes, 2024- 2034 (USD billion)

7.4 Europe Electronic Design Automation (Eda) Tools Market Size and Percentage Breakdown By End-Use, 2024- 2034 (USD billion)

7.5 Europe Electronic Design Automation (Eda) Tools Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.5.1 Germany Electronic Design Automation (Eda) Tools Market Size, Trends, Growth Outlook to 2034

7.5.2 United Kingdom Electronic Design Automation (Eda) Tools Market Size, Trends, Growth Outlook to 2034

7.5.2 France Electronic Design Automation (Eda) Tools Market Size, Trends, Growth Outlook to 2034

7.5.2 Italy Electronic Design Automation (Eda) Tools Market Size, Trends, Growth Outlook to 2034

7.5.2 Spain Electronic Design Automation (Eda) Tools Market Size, Trends, Growth Outlook to 2034

8. NORTH AMERICA ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034

8.1 North America Snapshot, 2025

8.2 North America Electronic Design Automation (Eda) Tools Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Electronic Design Automation (Eda) Tools Market Analysis and Outlook By Deployment Modes, 2024- 2034 (\$ billion)

8.4 North America Electronic Design Automation (Eda) Tools Market Analysis and Outlook By End-Use, 2024- 2034 (\$ billion)

8.5 North America Electronic Design Automation (Eda) Tools Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.5.1 United States Electronic Design Automation (Eda) Tools Market Size, Share,

Growth Trends and Forecast, 2024- 2034

8.5.1 Canada Electronic Design Automation (Eda) Tools Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.5.1 Mexico Electronic Design Automation (Eda) Tools Market Size, Share, Growth Trends and Forecast, 2024- 2034

9. SOUTH AND CENTRAL AMERICA ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS

9.1 Latin America Electronic Design Automation (Eda) Tools Market Data, 2025

9.2 Latin America Electronic Design Automation (Eda) Tools Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Electronic Design Automation (Eda) Tools Market Future By Deployment Modes, 2024- 2034 (\$ billion)

9.4 Latin America Electronic Design Automation (Eda) Tools Market Future By End-Use, 2024- 2034 (\$ billion)

9.5 Latin America Electronic Design Automation (Eda) Tools Market Future by Country, 2024- 2034 (\$ billion)

9.5.1 Brazil Electronic Design Automation (Eda) Tools Market Size, Share and Opportunities to 2034

9.5.2 Argentina Electronic Design Automation (Eda) Tools Market Size, Share and Opportunities to 2034

10. MIDDLE EAST AFRICA ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET OUTLOOK AND GROWTH PROSPECTS

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Electronic Design Automation (Eda) Tools Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Electronic Design Automation (Eda) Tools Market Statistics By Deployment Modes, 2024- 2034 (USD billion)

10.4 Middle East Africa Electronic Design Automation (Eda) Tools Market Statistics By End-Use, 2024- 2034 (USD billion)

10.5 Middle East Africa Electronic Design Automation (Eda) Tools Market Statistics by Country, 2024- 2034 (USD billion)

10.5.1 Middle East Electronic Design Automation (Eda) Tools Market Value, Trends, Growth Forecasts to 2034

10.5.2 Africa Electronic Design Automation (Eda) Tools Market Value, Trends, Growth Forecasts to 2034

11. ELECTRONIC DESIGN AUTOMATION (EDA) TOOLS MARKET STRUCTURE AND COMPETITIVE LANDSCAPE

- 11.1 Key Companies in Electronic Design Automation (Eda) Tools Industry
- 11.2 Electronic Design Automation (Eda) Tools Business Overview
- 11.3 Electronic Design Automation (Eda) Tools Product Portfolio Analysis
- 11.4 Financial Analysis
- 11.5 SWOT Analysis

12 APPENDIX

- 12.1 Global Electronic Design Automation (Eda) Tools Market Volume (Tons)
- 12.1 Global Electronic Design Automation (Eda) Tools Trade and Price Analysis
- 12.2 Electronic Design Automation (Eda) Tools Parent Market and Other Relevant Analysis
- 12.3 Publisher Expertise
- 12.2 Electronic Design Automation (Eda) Tools Industry Report Sources and Methodology

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