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Electronic Design Automation (Eda) Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Computer Aided Engineering (CAE), Semiconductor Intellectual Property (SIP), Integrated circuit (IC) Physical Design And Verification, Printed Circuit Board (PCB) And Multi-Chip Module (MCM)), By Deployment Mode (Cloud-Based, On-Premises), By Application, By End User

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Abstracts

The Electronic Design Automation (Eda) Market is valued at USD 15.4 billion in 2025 and is projected to grow at a CAGR of 10.3% to reach USD 37.2 billion by 2034.The global Electronic Design Automation (EDA) market is witnessing rapid growth, driven by the increasing complexity of semiconductor design, advancements in chip miniaturization, and rising demand for high-performance computing. EDA tools play a crucial role in automating the design, verification, and manufacturing of integrated circuits (ICs) and electronic systems, enabling faster development cycles and cost-efficient production. The surge in demand for artificial intelligence (AI), 5G networks, Internet of Things (IoT) devices, and automotive electronics has further fueled market expansion. Additionally, the growing adoption of cloud-based EDA solutions is transforming the industry by offering scalable, collaborative design environments. As semiconductor manufacturers push for higher efficiency and innovation, EDA software is becoming increasingly indispensable, positioning the market for strong growth in the coming years. The EDA market is experiencing significant technological advancements, particularly in AI-driven chip design and automation. AI-powered EDA tools are enhancing the efficiency of design verification, circuit simulation, and physical layout optimization, reducing development time and costs. Additionally, the transition to 3nm

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and sub-3nm semiconductor nodes is driving demand for more sophisticated EDA solutions capable of handling intricate chip architectures. The integration of EDA tools with cloud computing platforms is enabling real-time collaboration among design teams, streamlining workflows across global semiconductor firms. Moreover, the increasing focus on chip security and design-for-test (DFT) methodologies is pushing EDA vendors to develop more robust verification and validation tools. With semiconductor demand surging across industries such as automotive, consumer electronics, and telecommunications, the EDA market is poised for strong growth throughout 2024. The EDA market is expected to be further transformed by AI, quantum computing, and generative design technologies. The integration of AI-driven automation will continue to enhance productivity by reducing manual intervention in design processes. As quantum computing progresses, EDA tools will need to evolve to support quantum chip design, opening new opportunities for innovation. The expansion of edge computing and IoT ecosystems will also drive demand for specialized EDA tools catering to low-power and high-efficiency chip designs. Additionally, the adoption of chiplet-based architectures is expected to gain traction, requiring advanced design and packaging tools to optimize multi-die integration. With semiconductor supply chains becoming more decentralized, cloud-based and open-source EDA solutions will gain prominence, fostering collaboration and accelerating innovation in electronic design.

Key Insights Electronic Design Automation (Eda) Market

AI-Driven EDA Tools: AI is revolutionizing EDA by automating design verification, circuit layout optimization, and predictive analytics, significantly reducing development time and errors.

Cloud-Based EDA Adoption: The shift towards cloud-enabled EDA solutions is enabling real-time collaboration, improving accessibility, and reducing infrastructure costs for semiconductor firms.

Advancements in 3nm and Beyond: As chip manufacturing moves to 3nm and sub-3nm nodes, demand for advanced EDA tools capable of handling complex semiconductor architectures is rising.

Growth of Chiplet and Heterogeneous Integration: The adoption of chiplet-based architectures is driving the need for EDA tools that support modular design and seamless multi-die integration.

Focus on Security and Reliability: With cybersecurity threats increasing,

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semiconductor companies are investing in EDA solutions with built-in security validation and design-for-trust methodologies.

Rising Demand for AI and 5G Chips: The growth of AI applications and 5G networks is accelerating demand for advanced semiconductor design, boosting EDA adoption.

Increasing Complexity of Semiconductor Design: The shift towards smaller nodes and multi-layered chip architectures is driving the need for sophisticated EDA software.

Expansion of IoT and Edge Computing: The proliferation of IoT and edge devices requires efficient, low-power chip designs, increasing reliance on EDA solutions.

Surge in Automotive and Consumer Electronics Innovation: The rise of electric vehicles (EVs), autonomous driving, and smart devices is pushing semiconductor companies to adopt next-gen EDA tools.

High Costs and Complexity of EDA Tools: The increasing sophistication of EDA software requires significant investment and technical expertise, posing challenges for small and mid-sized semiconductor firms.

Electronic Design Automation (Eda) Market Segmentation

By Type

Computer Aided Engineering (CAE)

Semiconductor Intellectual Property (SIP)

Integrated circuit (IC) Physical Design And Verification

Printed Circuit Board (PCB) And Multi-Chip Module (MCM)

By Deployment Mode

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Cloud-Based

On-Premises

By Application

Microprocessors And Microcontrollers

Memory Management Units

Other Applications

By End User

Automotive Industry

Healthcare Industry

Aerospace And Defense Industry

Telecom And Data Centre Industry

Consumer Electronics Industry

Industrial Sector

Other End-Users

Key Companies Analysed

Siemens AG

Oracle Corporation

SAP SE

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Advanced Micro Devices Inc.

Dassault Systemes

Keysight Technologies Inc.

Synopsys Inc.

Autodesk Inc.

Cadence Design Systems Inc.

Werner Enterprises

Xilinx Inc.

Ansys Inc.

National Instruments Corp.

MathWorks Inc.

eInfochips Private Limited

Mentor Graphics Corporation

Altium Limited

BluJay Solutions Ltd.

Zuken Inc.

Silvaco Inc.

Aldec Inc.

Agnisys Inc.

Labcenter Electronics Ltd.

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Intercept Technology Inc.

Sigasi NV

Altair Engineering Inc.

Boldport Limited

Dolphin Design

EasyEDA

EnSilica plc

Eremex Ltd.

Electronic Design Automation (Eda) 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) 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.

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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) market data and outlook to 2034

United States

Canada

Mexico

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

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

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

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Japan

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India

South Korea

Australia

Indonesia

Malaysia

Vietnam

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

Saudi Arabia

South Africa

Iran

UAE

Egypt

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

Brazil

Argentina

Chile

Peru

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

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Research Methodology

This study combines primary inputs from industry experts across the Electronic Design Automation (Eda) 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) 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) Market Report

- Global Electronic Design Automation (Eda) market size and growth projections (CAGR), 2024-2034
- Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Electronic

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Design Automation (Eda) trade, costs, and supply chains

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

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

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

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

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

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

Latest Electronic Design Automation (Eda) market news and developments

Additional Support

With the purchase of this report, you will receive

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