

Electronic Design Automation (EDA) Software Market Forecasts to 2034 – Global Analysis By Product Type (Computer-Aided Engineering (CAE), IC Physical Design & Verification, Printed Circuit Board (PCB) Design Software, Semiconductor IP (SIP), FPGA Design Software, System-Level Design Software, and Packaging & Advanced IC Design Software), Deployment Mode, Enterprise Size, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Electronic Design Automation (EDA) Software Market is accounted for \$19.5 billion in 2026 and is expected to reach \$41.5 billion by 2034, growing at a CAGR of 9.9% during the forecast period. Electronic design automation software is the comprehensive suite of software tools, platforms, and solutions used to design, simulate, verify, and manufacture electronic systems including integrated circuits, printed circuit boards, and advanced packaging. This software encompasses computer-aided engineering tools, IC physical design and verification, PCB design software, semiconductor IP, FPGA design software, system-level design software, and packaging and advanced IC design software. As a result, EDA software has become essential for enabling the design of increasingly complex semiconductor and electronic systems.

Market Dynamics:

Driver:

Increasing complexity of semiconductor and electronic system design

The growing complexity of semiconductor devices and electronic systems serves as a primary catalyst for the electronic design automation software market. Modern chips integrate billions of transistors, multiple functional blocks, and increasingly sophisticated architectures that require advanced design tools for implementation and verification. The proliferation of AI, automotive electronics, and IoT devices creates demand for specialized design capabilities. EDA software enables designers to manage complexity, optimize performance and power consumption, and reduce time-to-market. As semiconductor and electronic system complexity continues to grow, the demand for advanced EDA software continues to accelerate.

Restraint:

High software costs and steep learning curves

The electronic design automation software market faces significant challenges from high software costs and steep learning curves that can limit adoption, particularly among smaller companies and emerging markets. Advanced EDA tools require substantial investment in software licenses, hardware infrastructure, and training. The complexity of EDA software requires specialized expertise and extensive training to use effectively. Additionally, the rapid evolution of design methodologies and technologies requires continuous learning and tool updates. These cost and training challenges can limit EDA software adoption, particularly for companies with limited resources.

Opportunity:

Growth of AI-driven design automation and cloud-based EDA

The advancement of AI-driven design automation and the expansion of cloud-based EDA solutions present significant opportunities for the electronic design automation software market. AI-powered design tools can automate routine design tasks, optimize layouts, and accelerate time-to-market. Cloud-based EDA enables scalable, cost-effective access to design tools, reducing upfront investment requirements and enabling collaboration across distributed teams. The integration of machine learning into EDA tools can improve design productivity and quality. As AI and cloud technologies continue to advance, the opportunities for innovation in EDA software continue to expand.

Threat:

Competition from open-source tools and in-house solutions

The electronic design automation software market faces threats from competition from open-source design tools and in-house developed solutions that could limit commercial EDA adoption. Open-source EDA tools offer cost-effective alternatives for basic design tasks, particularly for smaller companies and academic research. Companies with sufficient resources may develop custom design tools for competitive advantage rather than licensing commercial solutions. Additionally, the emergence of new design methodologies could reduce the need for traditional EDA tools. These competitive pressures require commercial EDA providers to continuously innovate and demonstrate value through advanced capabilities.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the electronic design automation software market by accelerating digital transformation and semiconductor design activity while disrupting collaboration and development schedules. The shift toward remote work increased demand for semiconductor devices, driving design activity and EDA software adoption. Remote work challenges affected collaboration and design team productivity, accelerating adoption of cloud-based EDA solutions. The semiconductor industry's continued focus on innovation supported EDA market growth despite pandemic challenges. As remote work became more prevalent, the adoption of cloud-based EDA solutions accelerated.

The computer-aided engineering segment is expected to be the largest during the forecast period

The computer-aided engineering segment is expected to account for the largest market share during the forecast period, driven by the essential role of simulation and analysis tools in verifying design functionality, performance, and reliability before manufacturing across all semiconductor and electronic design applications. CAE tools enable design verification, timing analysis, signal integrity assessment, and power analysis critical for successful chip development. The complexity of modern semiconductor designs requires extensive simulation and verification, driving CAE tool adoption. As design complexity continues to increase, the demand for CAE tools maintains the largest market share.

The cloud-based deployment segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the cloud-based deployment segment is predicted to witness the highest growth rate, driven by the increasing adoption of cloud computing for EDA workloads, offering scalability, flexibility, reduced upfront costs, and collaborative capabilities for globally distributed design teams. Cloud-based EDA enables on-demand access to computing resources for simulation and verification tasks. The ability to scale computing resources dynamically for peak workloads reduces time-to-market. As semiconductor companies embrace cloud computing, the adoption of cloud-based EDA solutions continues to accelerate.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by the presence of leading EDA software companies, strong semiconductor design ecosystem, significant investment in chip design, and large addressable markets across computing, communications, and enterprise applications. The region's dominance in EDA software development and semiconductor design supports market leadership. Major EDA companies in the United States are global leaders in electronic design automation software. Additionally, a mature technology ecosystem, substantial research and development investments, and strong venture capital support contribute to the region's largest market share.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by increasing semiconductor design capabilities, expanding electronics manufacturing, growing number of fabless companies, and strong government support for semiconductor development across countries like China, Taiwan, South Korea, India, and Singapore. The region's strength in electronics manufacturing and growing design capabilities supports EDA market growth. Governments in Asia Pacific are supporting semiconductor design through investment and policy frameworks. The rapid growth of semiconductor design activity across the region accelerates EDA software market growth at the fastest pace.

Key players in the market

Some of the key players in Electronic Design Automation (EDA) Software Market

include NVIDIA Corporation, Qualcomm Incorporated, Broadcom Inc., Advanced Micro Devices (AMD) Inc., MediaTek Inc., Marvell Technology Inc., Realtek Semiconductor Corporation, Novatek Microelectronics Corp., Synaptics Incorporated, Silicon Laboratories Inc., Cirrus Logic Inc., Lattice Semiconductor Corporation, Rambus Inc., Ambarella Inc., and Allegro MicroSystems Inc.

Key Developments:

In March 2025, NVIDIA Corporation announced its next-generation EDA platform featuring AI-powered design optimization and verification capabilities. The platform leverages machine learning to accelerate design closure and improve design quality for advanced semiconductor designs.

In February 2025, Synopsys introduced new cloud-based EDA solutions enabling scalable design verification and simulation for complex SoC designs. The solutions provide on-demand access to computing resources for accelerated design cycles.

Product Types Covered:

Computer-Aided Engineering (CAE)

IC Physical Design & Verification

Printed Circuit Board (PCB) Design Software

Semiconductor IP (SIP)

FPGA Design Software

System-Level Design Software

Packaging & Advanced IC Design Software

Deployment Modes Covered:

On-Premises

Cloud-Based

Hybrid Deployment

Enterprise Sizes Covered:

Large Enterprises

Small & Medium Enterprises (SMEs)

Applications Covered:

Integrated Circuit (IC) Design

System-on-Chip (SoC) Design

Printed Circuit Board (PCB) Design

FPGA Design

ASIC Design

3D IC & Advanced Packaging Design

Analog & Mixed-Signal Design

MEMS Design

Photonic IC Design

End Users Covered:

Semiconductor Companies

Fabless IC Design Companies

Integrated Device Manufacturers (IDMs)

Electronic Manufacturing Services (EMS) Providers

Consumer Electronics Companies

Automotive Electronics Manufacturers

Aerospace & Defense Organizations

Telecommunications Companies

Industrial Electronics Companies

Research Institutions & Universities

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

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