

Global Electronic Design Automation Engineering Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Design Automation Engineering Software market size is expected to reach \$ 798 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Electronic Design Automation (EDA) Engineering Software refers to a technology platform that utilizes computer-aided design, simulation, and verification tools to complete the entire development process of electronic systems, from the chip level to the circuit board level. It encompasses core functions such as hardware description language programming, logic synthesis, physical placement and routing, circuit simulation, signal integrity analysis, physical verification, and manufacturing data preparation. EDA Engineering Software transforms abstract electronic design intentions into manufacturable photomask data or PCB production files, and significantly shortens development cycles and reduces trial-and-error costs through precise modeling and algorithms. As the upstream cornerstone of the integrated circuit and electronics industry, EDA Engineering Software supports the design and innovation of everything from nanoscale transistors to complex avionics systems.

The global Electronic Design Automation Engineering Software market is characterized by a US-European dominance and rapid catch-up in the Asia-Pacific region. North America, with its strong semiconductor industry foundation and long-term technological accumulation, maintains its leading position globally, boasting industry giants such as Synopsys and Cadence. Europe, centered on Germany and the UK, maintains its technological advantages in specific niche areas such as mixed-signal simulation and formal verification. The Asia-Pacific region is becoming the most dynamic market, with China experiencing particularly rapid growth driven by domestic substitution policies,

and local companies like Huada Jiutian and GELUN Electronics accelerating their catch-up. Japan, on the other hand, has strengths in packaging design and optoelectronic EDA.

In terms of market concentration, the industry is highly concentrated, with a few US companies dominating the entire toolchain, but numerous specialized tool providers still exist in vertical sectors. Looking ahead, the deep integration of artificial intelligence and machine learning is reshaping design processes, cloud-based EDA solutions are lowering the barriers to entry for SMEs, and system-level and chip-level collaborative design is becoming an important direction.

Key obstacles to development include: the high cost of high-end Electronic Design Automation Engineering Software and its maintenance, placing significant economic pressure on SMEs and research institutions; a global shortage of professional EDA talent, with long training cycles and high knowledge requirements; and continued technical challenges in data interoperability and process integration between tools from different vendors. On the dynamic side, governments worldwide are increasingly viewing EDA as a strategic key technology, supporting domestic R&D and M&A activities; the open-source EDA ecosystem is becoming increasingly active in education and small projects; and traditional chip design companies are also beginning to develop their own in-house electronic design automation engineering software for specific domains to meet customized needs.

This report studies the global Electronic Design Automation Engineering Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Design Automation Engineering Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electronic Design Automation Engineering Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Design Automation Engineering Software total market, 2021-2032, (USD Million)

Global Electronic Design Automation Engineering Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Electronic Design Automation Engineering Software total market, key

domestic companies, and share, (USD Million)

Global Electronic Design Automation Engineering Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Electronic Design Automation Engineering Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Electronic Design Automation Engineering Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Electronic Design Automation Engineering Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Synopsys, Cadence, Mentor Graphics (Siemens), Aldec, Ansys, Silvaco, Vennsa Technologies, Altium, MunEDA GmbH, Zuken, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Electronic Design Automation Engineering Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electronic Design Automation Engineering Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electronic Design Automation Engineering Software Market, Segmentation by Type:

Designing and Prototyping

System Integration

Testing

Others

Global Electronic Design Automation Engineering Software Market, Segmentation by Accuracy:

Rapid Prototyping/Estimation Level (Timing Error ?20%~50%)

Standard/Deliverable Level (Timing Error ?10%~20%)

High Precision Level (Timing Error ?3%~10%)

Global Electronic Design Automation Engineering Software Market, Segmentation by Intelligent:

Fully Automated Process

Interactive Guidance

AI/ML Enhanced

Rule-Driven

Others

Global Electronic Design Automation Engineering Software Market, Segmentation by Application:

Integrated Circuit Design

Packaging and 3D IC Design

Printed Circuit Boards and Electronic Modules

Optoelectronics and RF Electronics

Automotive and Industrial Electronics

Others

Companies Profiled:

Synopsys

Cadence

Mentor Graphics (Siemens)

Aldec

Ansys

Silvaco

Vennsa Technologies

Altium

MunEDA GmbH

Zuken

Keysight Technologies

Nazca Design

HuaDa Jiutian

Galen Electronics

Xpeedic

AMD Xilinx

Pulsic

Key Questions Answered

1. How big is the global Electronic Design Automation Engineering Software market?
2. What is the demand of the global Electronic Design Automation Engineering Software market?
3. What is the year over year growth of the global Electronic Design Automation Engineering Software market?
4. What is the total value of the global Electronic Design Automation Engineering Software market?
5. Who are the Major Players in the global Electronic Design Automation Engineering Software market?
6. What are the growth factors driving the market demand?

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