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Electronic Design Automation (EDA) Software Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Computer-aided Engineering (CAE), IC Physical Design & Verification, Printed Circuit Board & Multi-chip Module (PCB & MCM), Semiconductor Intellectual Property (SIP), Services), By Application (Communication, Consumer Electronics, Automotive, Industrial), By Region & Competition, 2021-2031F

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Abstracts

The Global Electronic Design Automation (EDA) Software Market will grow from USD 18.65 Billion in 2025 to USD 34.38 Billion by 2031 at a 10.73% CAGR. Electronic Design Automation software comprises a category of digital tools utilized for the design, simulation, verification, and manufacturing of electronic systems such as integrated circuits and printed circuit boards.

Key Market Drivers

Integration of Artificial Intelligence and Machine Learning for Design Optimization acts as a primary catalyst, transforming the efficiency of semiconductor engineering. As the physical limitations of silicon are approached, AI-driven EDA tools are becoming indispensable for automating labor-intensive tasks such as placement and routing, which drastically reduces design iterations while maximizing power, performance, and area (PPA) metrics.

Key Market Challenges

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The shortage of skilled engineering talent constitutes a significant restraint on the expansion of the global Electronic Design Automation software market. As semiconductor designs transition toward smaller nodes and increasingly complex architectures, the software tools required to develop them become intricate and demanding. However, the industry currently lacks a sufficient volume of qualified personnel with the specialized expertise needed to operate these platforms effectively. When organizations cannot secure enough engineers to manage these workflows, they are unable to fully utilize the capacity of automation tools, which directly limits the number of software licenses and seats that vendors can sell to technology firms.

Key Market Trends

The Growth of In-House Silicon Design by Hyperscalers and System Companies significantly reshapes the market landscape as non-semiconductor entities increasingly develop custom integrated circuits to differentiate their products. Tech giants and automotive manufacturers are bypassing standard off-the-shelf components in favor of bespoke system-on-chips (SoCs) tailored for specific workloads such as artificial intelligence training and autonomous driving. This vertical integration strategy necessitates heavy investment in primary design and simulation tools to manage the entire development lifecycle internally, thereby fueling demand for Computer-Aided Engineering (CAE) solutions.

Key Market Players

Cadence Design Systems, Inc.

Synopsys, Inc.

Siemens Digital Industries Software

Ansys, Inc.

Keysight Technologies, Inc.

Mentor, a Siemens Business

Silvaco, Inc.

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Zuken, Inc.

Altium Limited

Dassault Systemes

Report Scope:

In this report, the Global Electronic Design Automation (EDA) Software Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Electronic Design Automation (EDA) Software Market, By Type:

Computer-aided Engineering (CAE)

IC Physical Design & Verification

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

Semiconductor Intellectual Property (SIP)

Services

Electronic Design Automation (EDA) Software Market, By Application:

Communication

Consumer Electronics

Automotive

Industrial

Electronic Design Automation (EDA) Software Market, By Region:

North America

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United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

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South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Electronic Design Automation (EDA) Software Market.

Available Customizations:

Global Electronic Design Automation (EDA) Software Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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