

# Electronic Design Automation Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global electronic design automation market size reached US\$ 10.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 16.9 Billion by 2028, exhibiting a growth rate (CAGR) of 7.8% during 2023-2028.

Electronic design automation, or electronic computer-aided design tool, refers to a collection of various software tools that are used to design circuit boards digitally. It utilizes integrated layouts of analog and digital designs, which are used in the manufacturing of integrated circuits (ICs) and other electronic components. This aids in minimizing the production costs and time required for designing ICs, along with eliminating manufacturing errors. Owing to these benefits, it finds extensive applications across various industries, including aerospace, defense, healthcare, telecom and automotive.

### Electronic Design Automation Market Trends:

Significant growth in the electronics industry, coupled with the emerging trend of industrial automation across the globe, currently represent as the key factors driving the growth of the market. Furthermore, the integration of connected devices with the Internet of Things (IoT), augmented reality (AR) and artificial intelligence (AI) is also providing a boost to the market growth. These technologies are favoring the widespread adoption of circuits, semiconductors and sensors that are compact and require low operational power. Additionally, the trend of miniaturized electronic products is also creating a positive outlook for the market. Manufacturers are utilizing EDA solutions to design advanced electronics with compact designs, such as smart wearable devices, automotive gadgets and healthcare equipment, with high efficiency. Other factors, including the rising utilization of microprocessors and controllers in automated controls

and smartcard applications, advancements in System on Chip (SoC) technology and extensive research and development (R&D) activities, are projected to drive the market further.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global electronic design automation market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on solution type, deployment type and end-use industry.

#### Breakup by Solution Type:

- Semiconductor IP
- CAE (Computer Aided Engineering)
- IC Physical Design and Verification
- PCB & MCM (Printed Circuit Board and Multi-Chip Module)
- Services

#### Breakup by Deployment Type:

- On-premises
- Cloud-based

#### Breakup by End-Use Industry:

- Military/Defense
- Aerospace
- Telecom
- Automotive
- Healthcare
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia Pacific
- China

Japan  
India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Altium Limited, ANSYS, Inc., Autodesk Inc., Boldport Limited, Cadence Design Systems, Inc., Siemens AG, Silvaco Inc., Synopsys, Inc., Vennsa Technologies and Xilinx, Inc.

#### Key Questions Answered in This Report

1. What was the size of the global electronic design automation market in 2022?
2. What is the expected growth rate of the global electronic design automation market during 2023-2028?
3. What has been the impact of COVID-19 on the global electronic design automation market?
4. What are the key factors driving the global electronic design automation market?
5. What is the breakup of the global electronic design automation market based on the solution type?
6. What is the breakup of the global electronic design automation market based on the end-use industry?
7. What are the key regions in the global electronic design automation market?

8. Who are the key players/companies in the global electronic design automation market?

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