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Electronic Design Automation Market by Product Category (CAE, Semiconductor IP, PCB & MCM), Deployment Mode(On-premises, Cloud-based), End-Use Application, End User (Consumer Electronics Industry, Automotive, Healthcare), Region - Global Forecast to 2028

Market Report | 2023-05-17 | 256 pages | MarketsandMarkets

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Report description:

The global electronic design automation was valued at USD 14.5 billion in 2022 and is estimated to reach USD 26.2 billion by 2028, registering a CAGR of 9.8% during the forecast period. The rise of the Internet of Things (IoT) and the growing trend of connected devices is creating a need for advanced electronic design automation tools that can enable the design and development of complex, connected products. In addition, miniaturization has become a key factor in many industries, including consumer electronics, medical devices, and automotive electronics. As products become smaller and more compact, there is a need for electronic design automation solutions that can enable the design of highly integrated, miniaturized components. These trends have resulted in an increasing demand for electronic design automation tools and solutions, leading to the growth of the EDA market.

"IC physical design & verification segment is expected to grow at the highest CAGR during the forecast period."
The IC physical design and verification segment is growing at the highest CAGR in the EDA market due to the increasing complexity of chip designs and the need for enhanced verification and design optimization automation. As the semiconductor industry advances, the size of chips is decreasing, while their complexity is increasing, which requires a more comprehensive design methodology. The segment's growth is driven by the need for efficient chip design and verification processes that maintain the highest accuracy without increasing runtime. As a result, EDA companies are focusing on developing new solutions to address these challenges and provide better chip design and verification capabilities.

"Microprocessors and microcontrollers segment is projected to record the highest CAGR during the forecast period."
Microprocessors and microcontrollers are having the largest market share in the EDA market because they are key components in a wide range of electronic devices, from consumer electronics to industrial equipment. They serve as the "brains" of these devices, controlling and executing the necessary functions. With the increasing demand for smarter and more connected devices, the demand for microprocessors and microcontrollers is also increasing, driving the growth of this segment in the EDA market. Additionally, the complexity and number of functions required in these devices are also increasing, which further fuels the demand for advanced microprocessors and microcontrollers and the need for sophisticated design and verification tools provided by the EDA market.

"China to grow at the highest CAGR for Asia Pacific electronic design automation market"
China is experiencing the highest growth rate in the EDA market due to several factors. Firstly, the country has a strong foothold in the semiconductor industry, with many local companies engaged in the design, development, and manufacturing of semiconductors. Secondly, there has been a growing demand for electronic devices and connected technologies in China, resulting in an increased demand for EDA solutions. Additionally, the Chinese government has been investing heavily in the semiconductor industry and has been implementing policies and initiatives to support the growth of the industry.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the electronic design automation marketplace.

- By Company Type: Tier 1 - 25%, Tier 2 - 35%, and Tier 3 - 40%
- By Designation: C-level Executives - 35%, Directors - 25%, and Others - 40%
- By Region: Americas - 29%, EMEA - 46%, and APAC - 25%

Cadence Design Systems, Inc. (US); Synopsys, Inc. (US); Siemens (Germany); ANSYS, Inc. (US); Keysight Technologies, Inc. (US); Advanced Micro Device Inc. (US); eInfochips (US); Altium Limited (Australia); Zuken Inc. (Japan); Silvaco, Inc. (US); are some of the key players in the electronic design automation market.

The study includes an in-depth competitive analysis of these key players in the electronic design automation market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the electronic design automation market by product category (Computer-aided Engineering (CAE), IC Physical Design & Verification, PCB & MCM, Semiconductor IP, Services), by deployment (On-Premises, Cloud), by end use application (Microprocessors & Microcontrollers, Memory Management Units, and Others), by end user (Automotive Industry, Healthcare Industry, Aerospace & Defense Industry, Telecom and Data Centre Industry, Consumer Electronics Industry, Industrial Sector, and Others) and region (North America, Europe, Asia Pacific, and Rest of the World). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the electronic design automation market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. new product & service launches, mergers and acquisitions, and recent developments associated with the electronic design automation market. Competitive analysis of upcoming startups in the electronic design automation market ecosystem is covered in this report.

Reasons to buy this report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall electronic design automation market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:
- Analysis of key drivers (Increasing demand for complex integrated circuits (ICs), Growing usage of advanced technologies in consumer electronics, Growing demand of connected devices, Growing miniaturization of devices in various industries), restraints (Constant technological changes), opportunities (Growing adoption of cloud-based services, Increasing demand for electronic design automation solutions in aerospace & defense industry, Rising need to produce complex integrated circuits in automotive industry), and challenges (High complexity due to continuous technological changes and large volume of data) influencing the growth of the electronic design automation market
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the electronic design automation market
- Market Development: Comprehensive information about lucrative markets - the report analyses the electronic design automation market across varied regions.
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the electronic design automation market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Cadence Design Systems, Inc. (US); Synopsys, Inc. (US); Siemens (Germany); ANSYS, Inc. (US); Keysight Technologies, Inc. (US); Advanced Micro Device Inc. (US); eInfochips (US); Altium Limited (Australia); Zuken Inc. (Japan); Silvaco, Inc. (US) among others in the electronic design automation market.

Table of Contents:

*Details on Business Overview, Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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