

Global Electronic and Electrical Design Software Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Electronic and Electrical Design Software market size is predicted to grow from US\$ 2162 million in 2025 to US\$ 3804 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Electronic and Electrical Design Software refers to a suite of software tools used for the planning, design, simulation, verification, routing, and engineering documentation of electronic products, electrical equipment, and power systems.

This market generally comprises two main product categories:

Electronic Design Software / EDA: Targeted at the design of integrated circuits, analog/digital circuits, PCBs, IC packaging, RF systems, and electronic systems;

Electrical Design Software / Electrical CAD-CAE: Targeted at the design of electrical schematics, control cabinets, wiring harnesses, cables, power distribution networks, and power systems.

Market Drivers

1. Increasing complexity of semiconductor design

Advanced process nodes, chiplets, 3D ICs, and heterogeneous integration have increased the complexity of chip design, verification, packaging, and multi-physics analysis, driving the evolution of EDA software from point tools to collaborative platforms spanning chips, packages, PCBs, and systems.

2. Upgrading of E/E (Electrical/Electronic) architectures in new energy vehicles (NEVs)

The increased use of power semiconductors, high-voltage connections, domain controllers, sensors, communication networks, and wire harnesses in NEVs is driving simultaneous growth in demand for chip EDA, PCB design, wire harness design, and electrical system simulation software.

3. Growth in industrial automation investment

The proliferation of robots, PLCs, sensors, servo drives, and intelligent production equipment has increased the workload for designing control cabinets, schematics, terminal blocks, and industrial wire harnesses, driving the adoption of specialized electrical CAD over general-purpose drafting tools.

4. Shortened product development cycles

As the pace of electronic product updates accelerates, companies need to reduce manual design time and the number of prototyping iterations through features such as auto-routing, rule checking, simulation verification, design reuse, and automated engineering documentation.

5. Rising demand for system-level collaborative design

The boundaries between electronics, mechanics, software, thermal design, and manufacturing engineering are blurring, driving the integration of ECAD, MCAD, PLM, simulation, and manufacturing data platforms.

6. Integration of AI technology into engineering design workflows

AI is being utilized for circuit optimization, component placement, auto-routing, verification coverage enhancement, defect identification, and design space exploration; this reduces repetitive tasks and helps engineers meet power, performance, area, and cost targets more quickly.

6 Integration of AI technology into engineering design workflows

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this helps reduce repetitive tasks and enables engineers to meet power, performance, area, and cost targets more rapidly.

Report Scope

LPI (LP Information)' newest research report, the “Electronic and Electrical Design Software Industry Forecast” looks at past sales and reviews total world Electronic and Electrical Design Software sales in 2025, providing a comprehensive analysis by region and market sector of projected Electronic and Electrical Design Software sales for 2026 through 2032. With Electronic and Electrical Design Software sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electronic and Electrical Design Software industry.

This Insight Report provides a comprehensive analysis of the global Electronic and Electrical Design Software landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Electronic and Electrical Design Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electronic and Electrical Design Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electronic and Electrical Design Software and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Electronic and Electrical Design Software.

This report presents a comprehensive overview, market shares, and growth opportunities of Electronic and Electrical Design Software market by product type, application, key players and key regions and countries.

Segmentation by Type:

Cloud-based

On-premise

Segmentation by Industry:

Semiconductors and Integrated Circuits

Consumer and Automotive Electronics

Industrial Automation and Machinery

Aerospace and Defense

Communications and Data Centers

Energy and Power Systems

Others

Segmentation by Function:

Design

Analysis

Simulation

Segmentation by Application:

Electronic Design Software

Electrical Design Software

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Siemens

Schneider Electric

Synopsys (Ansys)

Cadence

Autodesk

Dassault Syst?mes

EPLAN

ETAP

Bentley Systems

Keysight Technologies

Trace Software

Altium (Renesas Electronics)

Zuken

Quadcept

WSCAD

Beijing Empyrean Technology

Shanghai Primarius Technologies

Xpeedic Technology

Shenzhen Jialichuang (JLCPCB)

Guangli Microelectronics (Semitronix)

S2C (Guowei S2C)

HED (Hegian)

Xingxin Technology

Hongxin Weina (Hxwina)

ZWSOFT

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