

Electromagnetic Simulation Software Market: Future Demand and Top Key Players Analysis | 2029

*The Business Research Company's
Electromagnetic Simulation Software
Global Market Report 2025 – Market Size,
Trends, And Global Forecast 2025-2034*

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What Is The Expected Cagr For The Electromagnetic Simulation Software Market Through 2025?
In recent times, the [market size of the electromagnetic simulation software](#) industry has seen a



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fast-paced expansion. It is projected to rise from 2024's \$2.42 billion to \$2.87 billion in 2025, boasting a compound annual growth rate (CAGR) of 18.5%. Factors contributing to the growth during the historical period include the escalating acceptance of wireless communication systems, increased usage of radar and satellite technologies, a surge in the demand for electronic warfare instruments, the growth of automotive electronics applications, and a heightened dependency on aerospace testing tools.

The market size of electromagnetic simulation software is

forecasted to experience rapid expansion in the forthcoming years. By 2029, it is predicted to reach a valuation of \$5.60 billion with a Compound Annual Growth Rate (CAGR) of 18.2%. This growth during the projected period can be ascribed to increasing requirements for mmWave and 5G technologies, a heightened concentration on autonomous vehicle systems, the proliferation in the production of electric and hybrid vehicles, escalated investment in the modernization of defense, and a heightened need for precise compliance testing. The forecast period will be marked by trends such as advancements in simulation algorithm technology, innovation in tools for 3D modeling and meshing, investment in R&D, the rise of AI-powered simulation platforms

and improvements in the integration of high-performance computing.

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What Are The Key Factors Driving Growth In The Electromagnetic Simulation Software Market?

The expected growth in the electromagnetic simulation software market is attributed to the escalating demand for high-speed connectivity in the telecommunications sector. High-speed connectivity in the context of telecommunications relates to the rapid transfer of vast amounts of data over robust networks like 4G, 5G, and fiber-optic systems. Such speedy networks are necessitated by the growing usage of data-intensive applications such as video conferencing, gaming online, and cloud computing, which require low latency and consistent performance. Furthermore, electromagnetic simulation software bolsters the high-speed connectivity necessity in telecommunications by securing accurate high-frequency component modeling and improving signal transmission efficiency. For instance, a March 2022 report of the UK-based trade association, the GSM Association, estimates the number of 5G connections to hit 2 billion by 2025. By the end of 2025, the contribution of 5G connections to total mobile connections is expected to surpass 20%, and over 40% of the world's population will be within the coverage of a 5G network. Therefore, the escalating demand for high-speed connectivity in telecommunications serves to fuel the growth of the electromagnetic simulation software market.

What Are The Top Players Operating In The Electromagnetic Simulation Software Market?

Major players in the Electromagnetic Simulation Software Global Market Report 2025 include:

- Siemens AG
- Dassault Systèmes SE
- Keysight Technologies Inc.
- Synopsys Inc.
- Cadence Design Systems Inc.
- Zuken Inc.
- COMSOL Inc.
- SimScale GmbH
- IMST GmbH
- Nullspace Inc.

What Are The Upcoming Trends Of Electromagnetic Simulation Software Market In The Globe?

Leading firms in the electromagnetic simulation software market are concentrating on the creation of novel strategies like automation of circuit-EM co-design tools to expedite mmWave and sub-THz design for 5G and the forthcoming 6G technologies. Circuit-EM co-design tools automation involves a smooth and automatic interaction between circuit simulation and electromagnetic simulation instruments to improve the efficiency of high-frequency electronic parts' design and performance. To exemplify, Keysight Technologies, Inc., an electronics company based in the US, introduced the PathWave Advanced Design System (ADS) 2024 in June 2023 with

the aim of advancing 5G and 6G wireless component design. This new iteration provides notably quicker 3D electromagnetic solvers, improved electrothermal authentication, sophisticated layout and verification characteristics, and extended automation abilities. As a result, designers can address intricate problems such as mmWave signal loss, multi-process module integration, and power amplifier improvement with enhanced speed, precision, and effectiveness.

Comprehensive [Segment-Wise Insights Into The Electromagnetic Simulation Software](#) Market

The electromagnetic simulation software market covered in this report is segmented

- 1) By Component: Software, Services
- 2) By Deployment Mode: On-Premises, Cloud-Based, Hybrid Deployment
- 3) By Application: Antenna Design, Electromagnetic Compatibility, Microwave And Radio Frequency Component Design, Radar And Satellite, Automotive Electronics, Medical Devices, Other Applications
- 4) By End-User: Automotive, Aerospace And Defense, Electronics And Electrical, Healthcare, Telecommunications, Other End Users

Subsegments:

- 1) By Software: On-Premise, Cloud-Based
- 2) By Services: Consulting, Implementation And Integration, Support And Maintenance

View the full electromagnetic simulation software market report:

<https://www.thebusinessresearchcompany.com/report/electromagnetic-simulation-software-global-market-report>

Global Electromagnetic Simulation Software Market - Regional Insights

In the 2025 Global Market Report for Electromagnetic Simulation Software, North America represented the dominant region for the year 2024. Anticipated to exhibit the most rapid growth in the forthcoming years is the Asia-Pacific region. This market study encompasses other regions including Western Europe, Eastern Europe, South America, the Middle East, and Africa.

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