

Global Electromagnetic and Magnetic Simulation Software Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electromagnetic and Magnetic Simulation Software market size is expected to reach \$ 376 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Electromagnetic and Magnetic Simulation Software is a computer-aided engineering tool that uses computational electromagnetics algorithms to numerically simulate electromagnetic field distribution, propagation, radiation, scattering, and coupling phenomena in a virtual environment. It solves Maxwell's equations to calculate key indicators such as antenna radiation patterns, S-parameters of microwave devices, electromagnetic interference and compatibility of systems, radar cross-section, and specific absorptivity. The software supports wide-band analysis from DC to terahertz, covering multi-scale modeling from chip packaging, PCB board level, component level to complete vehicle/system platforms. It is widely used in communications, automotive, aerospace, consumer electronics, defense, and medical fields, helping engineers optimize electromagnetic performance, reduce physical prototype testing, shorten development cycles, and lower development costs during the design phase.

The global market for Electromagnetic and Magnetic Simulation Software is dominated by North America, with Europe possessing strong technological capabilities and the Asia-Pacific region rapidly catching up. North America is the largest market, benefiting from its developed aerospace, defense, and communications industries, while 5G/6G and autonomous driving are driving increased demand for high-frequency electromagnetic simulation. Europe leverages its advantages in automotive, industrial automation, and electromagnetic compatibility standards, focusing on multi-physics coupling. The Asia-Pacific region is experiencing the fastest growth, with China driving

strong demand for both domestic and imported electromagnetic software in the 5G, new energy vehicle, and chip packaging sectors, while Japan has deep expertise in RF and PCB technologies. Future trends include AI-assisted modeling and optimization, the widespread adoption of cloud simulation and GPU acceleration, chip-packaging-board-level co-simulation, and the penetration of open-source/low-cost tools. Key obstacles include high software learning barriers, time-consuming high-precision model calibration, high computational resource requirements, and high procurement costs for SMEs. Dynamically, integrated design and simulation (CAD/EDA integration) is becoming industry standard, while whole-vehicle electromagnetic virtual certification is driving deeper integration of simulation into the R&D process.

This report studies the global Electromagnetic and Magnetic Simulation Software demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electromagnetic and Magnetic Simulation Software, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electromagnetic and Magnetic Simulation Software that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electromagnetic and Magnetic Simulation Software total market, 2021-2032, (USD Million)

Global Electromagnetic and Magnetic Simulation Software total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Electromagnetic and Magnetic Simulation Software total market, key domestic companies, and share, (USD Million)

Global Electromagnetic and Magnetic Simulation Software revenue by player, revenue and market share 2021-2026, (USD Million)

Global Electromagnetic and Magnetic Simulation Software total market by Type, CAGR, 2021-2032, (USD Million)

Global Electromagnetic and Magnetic Simulation Software total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Electromagnetic and Magnetic Simulation Software market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ANSYS Inc., Dassault Systmes SE,

Keysight Technologies, Cadence Design Systems, Altair Engineering, ESI Group, COMSOL, Remcom, EMPIRE (IMST GmbH), Mician GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Electromagnetic and Magnetic Simulation Software market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electromagnetic and Magnetic Simulation Software Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electromagnetic and Magnetic Simulation Software Market, Segmentation by Type:

Method of Moments

MLFMA

Finite-DifferenceTime-Domain

Finite Element Analysis

Physical Optics

Geometrical Optics

Others

Global Electromagnetic and Magnetic Simulation Software Market, Segmentation by Grid Size:

Grid Size: ?500,000

Grid Size: 500,000 to 5,000,000

Grid Size: 5,000,000 to 20,000,000

Grid Size: ?20,000,000

Global Electromagnetic and Magnetic Simulation Software Market, Segmentation by Application Level:

Chip/Package Level

PCB/Board Level

Package/Module Level

Component/Subsystem Level

System/Platform Level

Global Electromagnetic and Magnetic Simulation Software Market, Segmentation by Application:

Antenna Design and Analysis

Mobile Devices

Automotive Radar

Biomedicine

Wireless Communication

Companies Profiled:

ANSYS Inc.

Dassault Systmes SE

Keysight Technologies

Cadence Design Systems

Altair Engineering

ESI Group

COMSOL

Remcom

EMPIRE (IMST GmbH)

Mician GmbH

Sonnet Software

SPEAG

Murata Software

Elfen

TONGYUAN

Rainbow Studio

Key Questions Answered

1. How big is the global Electromagnetic and Magnetic Simulation Software market?
2. What is the demand of the global Electromagnetic and Magnetic Simulation Software market?
3. What is the year over year growth of the global Electromagnetic and Magnetic Simulation Software market?
4. What is the total value of the global Electromagnetic and Magnetic Simulation Software market?
5. Who are the Major Players in the global Electromagnetic and Magnetic Simulation Software market?
6. What are the growth factors driving the market demand?

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