

Global Semiconductor Device Modeling and Simulation Market Growth (Status and Outlook) 2024-2030

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Abstracts

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The global Semiconductor Device Modeling and Simulation market size is projected to grow from US\$ million in 2023 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LPI (LP Information)' newest research report, the “Semiconductor Device Modeling and Simulation Industry Forecast” looks at past sales and reviews total world Semiconductor Device Modeling and Simulation sales in 2023, providing a comprehensive analysis by region and market sector of projected Semiconductor Device Modeling and Simulation sales for 2024 through 2030. With Semiconductor Device Modeling and Simulation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Device Modeling and Simulation industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Semiconductor Device Modeling and Simulation 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 Semiconductor Device Modeling and Simulation.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Device Modeling and Simulation market by product type, application, key players and key regions and countries.

Segmentation by type

Cloud-Based

On-Premise

Segmentation by application

Communication

Consumer Electronics

Automotive

Industrial

Medical

Aerospace

Others

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.

Ansys

Synopsys

COMSOL

DEVSIM

Siborg Systems

Silvaco

ASML

Coventor

Cyient

Nextnano

STR

MiraFra

Microport Computer Electronics

Rescale

Esgee Technologies

Einfochips

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