

Global Model Based Development (MBD) Market 2024 by Company, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Model Based Development (MBD) market size was valued at USD 2620.1 million in 2023 and is forecast to a readjusted size of USD 7049.5 million by 2030 with a CAGR of 15.2% during review period.

Model based development (MBD) is a software development methodology based on V-cycle. The model based approach enables a developer to simulate the models for the complex control processes. These software models can be tested to assess the performance in real-time.

Model-based development is a design and development method that models, simulates, and then verifies controls and controlled objects that make up systems. Through model-based development, verification can be done during the design process, which reduces rework in the verification process, thereby significantly reducing development hours and improving quality. Model-based development methods are used not only in the design process but also in the verification process. By modeling the verification environment, various types of verification can be performed.

Currently, model-based development is being used in a variety of products. It has been implemented mainly in the development of in-vehicle systems but is also being used in a wide range of other fields such as medical equipment and robotics. It is expected to be introduced in a variety of fields in the future.

Global key players of Model Based Development (MBD) include Siemens, IBM, PTC, ETAS, MathWorks, etc. The top five players hold a share over 53%. North America is

the largest market, has a share about 36%, followed by Europe and Asia-Pacific, with share 34% and 25%, separately. In terms of product type, On-premises is the largest segment, occupied for a share of 63%, and in terms of application, Automotive has a share about 25%.

The Global Info Research report includes an overview of the development of the Model Based Development (MBD) industry chain, the market status of Automotive (On-premises, Cloud Based), Electronics and Semiconductor (On-premises, Cloud Based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Model Based Development (MBD).

Regionally, the report analyzes the Model Based Development (MBD) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Model Based Development (MBD) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Model Based Development (MBD) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Model Based Development (MBD) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., On-premises, Cloud Based).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Model Based Development (MBD) market.

Regional Analysis: The report involves examining the Model Based Development (MBD) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer

behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Model Based Development (MBD) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Model Based Development (MBD):

Company Analysis: Report covers individual Model Based Development (MBD) players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Model Based Development (MBD). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Electronics and Semiconductor).

Technology Analysis: Report covers specific technologies relevant to Model Based Development (MBD). It assesses the current state, advancements, and potential future developments in Model Based Development (MBD) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Model Based Development (MBD) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Model Based Development (MBD) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

On-premises

Cloud Based

Market segment by Application

Automotive

Electronics and Semiconductor

Aerospace and Defence

Medical

Industrial

Others

Market segment by players, this report covers

Siemens

IBM

PTC

ETAS

MathWorks

dSPACE

NXP

Altair

Zuken

Gamma Technologies

Maplesoft

BTC

Model Engineering Solutions

PikeTec

Vector Informatik

Sparx Systems

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Model Based Development (MBD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Model Based Development (MBD), with revenue, gross margin and global market share of Model Based Development (MBD) from 2019 to 2024.

Chapter 3, the Model Based Development (MBD) competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Model Based Development (MBD) market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Model Based Development (MBD).

Chapter 13, to describe Model Based Development (MBD) research findings and conclusion.

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