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Global Generative AI for Chip Design Market Growth (Status and Outlook) 2024-2030

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Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

Generative AI for chip design refers to the use of generative AI technology to assist or automatically complete various tasks in the chip design process, including but not limited to code generation, design optimization, verification testing, and knowledge extraction. For example, it can automatically generate hardware description language (HDL) code that meets specifications based on the designer's instructions or preliminary design; by analyzing various aspects of chip design (such as power consumption, performance, area, etc.), generative AI can make optimization suggestions to help designers find the best design solution; it can automatically generate test cases and verification plans to conduct comprehensive and accurate verification tests on chip designs; it can extract useful knowledge from a large amount of design data, such as best practices, common problems and solutions, to provide decision support for designers.

The global Generative AI for Chip Design market size is projected to grow from US$ million in 2024 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 “Generative AI for Chip Design Industry Forecast” looks at past sales and reviews total world Generative AI for Chip Design sales in 2022, providing a comprehensive analysis by region and market sector of projected Generative AI for Chip Design sales for 2023 through 2029. With Generative AI for Chip Design sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Generative AI for Chip Design industry.

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This Insight Report provides a comprehensive analysis of the global Generative AI for Chip Design 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 Generative AI for Chip Design portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Generative AI for Chip Design market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Generative AI for Chip Design 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 Generative AI for Chip Design.

United States market for Generative AI for Chip Design is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Generative AI for Chip Design is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Generative AI for Chip Design is estimated to increase from US$ million in 2023 to US$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Generative AI for Chip Design players cover Microsoft Corporation, Amazon Web Services, Intel Corporation, Qualcomm Incorporated, NVIDIA Corporation, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Generative AI for Chip Design market by product type, application, key players and key regions and countries.

Segmentation by Type:

Logic Chip

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Analog Chip

Others

Segmentation by Application:

Automotive

Communications

Consumer Electronics

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

Segmentation by Type:

- Logic Chip
- Analog Chip
- Others

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Segmentation by Application:

- Automotive
- Communications
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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia

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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.

Microsoft Corporation

Amazon Web Services

Intel Corporation

Qualcomm Incorporated

NVIDIA Corporation

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Advanced Micro Devices

Texas Instruments Incorporated

MediaTek

Renesas Electronics Corporation

Synopsys

Marvell Technology

Cadence Design Systems

Altair Engineering

Tenstorrent

Silvaco Group

Cerebras Systems

Graphcore Limited

SambaNova Systems

Mythic AI

Syntiant

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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