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Global AI Chip Design Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global AI Chip Design market size is predicted to grow from US$ million in 2025 to US$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Chip design, also known as integrated circuit design (IC design), also known as VLSI design, refers to the design process aiming at integrated circuits and VLSI. Integrated circuit design involves the establishment of models for electronic devices (such as transistors, resistors, capacitors, etc.) and interconnections between devices. All devices and interconnects need to be placed on a piece of semiconductor substrate material. These components are placed on a single silicon substrate through semiconductor device manufacturing process (such as photolithography) to form a circuit. AI chips are also known as AI accelerators or computing cards, that is, modules specially used to deal with a large number of computing tasks in AI applications. This report focuses on AI chip design.

The global market for semiconductor was estimated at US$ 579 billion in the year 2022, is projected to US$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the

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emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

LPI (LP Information)' newest research report, the ?AI Chip Design Industry Forecast? looks at past sales and reviews total world AI Chip Design sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Chip Design sales for 2026 through 2032. With AI Chip Design sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Chip Design industry.

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

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

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

Segmentation by Type:

Front-end Chip Design

Back-end Chip Design

Segmentation by Application:

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Consumer Electronics

Automotive Electronics

Robot

IoT

Big Data and Cloud Computing

Other

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.

Intel

Nvidia

Samsung

AMD

Canaan Inc.

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Google

Qualcomm

Broadcom

IBM

Huawei Hisilicon

Cambricon

Beijing Horizon Robotics Technology R&D Co., Ltd.

ACE REDPOINT VENTURES CHINA I,L.P.

MTK

Baidu

Ingenic Semiconductor Co.,Ltd.

Beijing ESWIN Computing Technology Co.,Ltd.

DanXi Technology

Luminwave

Zbit Semi

BllueX.Microelectronics

Bcuffalo Lab

Lclegend Micro

Chipways

ASR Microelectronics

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Southchip

Enflame

Hangzhou NationalChip AI Company

YITU Technology

Black Sesame Technologies

Taifang Tech

Bywave Sensing

Zvision

GXCAS

Alpsentek

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