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Global AI Application Specific Integrated Circuit (ASIC) Market Growth 2026-2032

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Abstracts

The global AI Application Specific Integrated Circuit (ASIC) 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.

AI Application Specific Integrated Circuit (ASIC) is a type of integrated circuit designed specifically for artificial intelligence applications. Unlike general-purpose processors, ASICs are designed for specific applications, and therefore can provide higher performance and efficiency.

The design process of ASICs includes circuit design, verification, physical design, and manufacturing. ASICs typically consist of millions or even billions of transistors that are configured into specific circuits to achieve the desired functionality. ASIC design requires specialized knowledge and a great deal of experience, as their design is highly complex and intricate.

ASICs are widely used in the field of artificial intelligence, such as deep learning, machine learning, and natural language processing. Because ASICs can provide high performance and low power consumption, they are better suited for these applications than general-purpose processors. ASICs are also used in other fields, such as communication, image processing, and audio processing.

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

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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 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.

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

This Insight Report provides a comprehensive analysis of the global AI Application Specific Integrated Circuit (ASIC) 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 AI Application Specific Integrated Circuit (ASIC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global AI Application Specific Integrated Circuit (ASIC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Application Specific Integrated Circuit (ASIC) 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 Application Specific Integrated Circuit (ASIC).

This report presents a comprehensive overview, market shares, and growth opportunities of AI Application Specific Integrated Circuit (ASIC) market by product type,

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application, key manufacturers and key regions and countries.

Segmentation by Type:

Digital Circuits

Analog Circuits

Hybrid Circuits

Segmentation by Application:

Speech Recognition (SR)

Knowledge Graph (KG)

Natural Language Processing (NLP)

Computer Vision (CV)

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- 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 analysing the company's coverage, product portfolio, its market penetration.

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Google

Huawei

Intel

Sumsung

Arm

NVIDIA

AMD

Microchip

Graphcore

NXP Semiconductor

HiSilicon

Horizon

NationalChip

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Application Specific Integrated Circuit (ASIC) market?

What factors are driving AI Application Specific Integrated Circuit (ASIC) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Application Specific Integrated Circuit (ASIC) market opportunities vary by end market size?

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How does AI Application Specific Integrated Circuit (ASIC) break out by Type, by Application?

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