

# Global AI Application Specific Integrated Circuit (ASIC) Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global AI Application Specific Integrated Circuit (ASIC) market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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.

This report studies the global AI Application Specific Integrated Circuit (ASIC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Application Specific Integrated Circuit (ASIC), and provides market size (US\$ million)

and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Application Specific Integrated Circuit (ASIC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Application Specific Integrated Circuit (ASIC) total production and demand, 2018-2029, (K Units)

Global AI Application Specific Integrated Circuit (ASIC) total production value, 2018-2029, (USD Million)

Global AI Application Specific Integrated Circuit (ASIC) production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global AI Application Specific Integrated Circuit (ASIC) consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: AI Application Specific Integrated Circuit (ASIC) domestic production, consumption, key domestic manufacturers and share

Global AI Application Specific Integrated Circuit (ASIC) production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global AI Application Specific Integrated Circuit (ASIC) production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global AI Application Specific Integrated Circuit (ASIC) production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global AI Application Specific Integrated Circuit (ASIC) market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Google, Huawei, Intel, Samsung, Arm, NVIDIA, AMD, Microchip and Graphcore, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Application Specific Integrated Circuit (ASIC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global AI Application Specific Integrated Circuit (ASIC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Application Specific Integrated Circuit (ASIC) Market, Segmentation by Type

Digital Circuits

Analog Circuits

Hybrid Circuits

## Global AI Application Specific Integrated Circuit (ASIC) Market, Segmentation by Application

Speech Recognition (SR)

Knowledge Graph (KG)

Natural Language Processing (NLP)

Computer Vision (CV)

Others

### Companies Profiled:

Google

Huawei

Intel

Samsung

Arm

NVIDIA

AMD

Microchip

Graphcore

NXP Semiconductor

HiSilicon

Horizon

## NationalChip

### Key Questions Answered

1. How big is the global AI Application Specific Integrated Circuit (ASIC) market?
2. What is the demand of the global AI Application Specific Integrated Circuit (ASIC) market?
3. What is the year over year growth of the global AI Application Specific Integrated Circuit (ASIC) market?
4. What is the production and production value of the global AI Application Specific Integrated Circuit (ASIC) market?
5. Who are the key producers in the global AI Application Specific Integrated Circuit (ASIC) market?
6. What are the growth factors driving the market demand?

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