

Global Application-Specific AI Chip Market Growth 2026-2032

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Abstracts

The global Application-Specific AI Chip market size is predicted to grow from US\$ 16040 million in 2025 to US\$ 31620 million in 2032; it is expected to grow at a CAGR of 10.4% from 2026 to 2032.

In 2025, global Application-Specific AI Chip production reached approximately 11 m units, the average price is 1500 usd/unit. Application-Specific AI Chip is hardware devices specifically designed to perform specific types of AI tasks. Unlike general-purpose AI processors, special-purpose AI chips focus on optimizing one or more types of AI algorithms and applications, such as convolutional neural networks for image processing in deep learning, recurrent neural networks for sequential data such as speech and text processing, etc.

Market Concentration and Key Players:

Internationally, the market concentration of dedicated AI chips is not high, among which, chip enterprises represented by China in Asia are developing in this field with the power and speed of a new star. Europe and the United States, especially chip leading enterprises NVIDIA, Intel and so on can not be underestimated, in general, the development prospects of dedicated AI chips are broad.

Manufacturing Processes and Market Trends:

The manufacturing process of dedicated AI chips is the result of the deep integration of semiconductor technology and artificial intelligence requirements. Such chips need to find the right balance between computational performance, power efficiency, and flexibility to adapt to specific AI tasks, such as training and reasoning. Advanced

process nodes, such as 7 nm or smaller size technology, are used in the manufacturing process, which helps increase transistor density and reduce power consumption. For AI chips, in addition to traditional CMOS (Complementary Metal Oxide Semiconductor) technology, customized architecture design is also involved, such as tensor processing units (TPU), neural network processors (NPU), etc. These customized architectures are optimized for deep learning algorithms and can significantly improve data processing speed. In addition, to cope with the increasing volume and complexity of data, 3D stacking technology and high-bandwidth memory (HBM) are also widely used to achieve higher storage capacity and faster data transfer rates. In terms of packaging, Chiplet technology allows multiple chiplets to be integrated into a single package, further enhancing the integration and functionality of the system. Throughout the manufacturing process, testing is critical to ensure that each AI chip that leaves the factory can operate stably and meet stringent application requirements.

As global investment in artificial intelligence technology continues to increase, the dedicated AI chip market is showing a rapid development trend. Currently, the market is undergoing a transition from general purpose computing platforms to specialized accelerators, especially in cloud and edge computing environments. Enterprises have a strong demand for high-performance, low-latency AI processing power, which drives the development of dedicated AI chips. The sector is expected to continue its strong growth momentum in the coming years. On the one hand, the popularity of 5G networks has brought massive data streams to Internet of Things devices, stimulating the demand for edge-side AI chips; on the other hand, emerging application scenarios such as autonomous vehicles, smart homes and intelligent medical care have also become important driving forces. Meanwhile, China's government has introduced a series of supportive policies to encourage domestic enterprises to make breakthroughs in key technologies and narrow the gap with international leading levels. In addition, RISC-V open source instruction set architecture is gradually gaining favor in AI chip design due to its flexibility and low cost advantages, which promotes the development of local industry chain. In general, dedicated AI chips will not only occupy an important position in the data center, but also penetrate into the terminal products of various industries and become the key drivers of intelligent transformation.

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

industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Application-Specific AI Chip and breaks down the forecast by Strutrue, 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 Application-Specific AI Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Application-Specific AI Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Strutrue:

VPU

TPU

NPU

DPU

Segmentation by Precision:

High Precision

Low Precision

Mixed Precision

Segmentation by End Use:

Data Center AI ASIC

Edge AI ASIC

On-device AI

Segmentation by Application:

AI Data Center

Edge Computing

Consumer Electronics

IOT

Autonomous Driving

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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.

NVIDIA

Zhongke Yusur (Beijing)

MediaTek

ZTE

Intel

Broadcom

Marvell

Meso-micro Semiconductor

AMD

Cambricon

Shanghai Yunsilicon

NETINT Technologie?Shanghai?

Beijing Emergetech

Shenzhen Yunbao Intelligent

Resnics Technology (Shanghai)

Xinqiyuan Electronic Technology

Beijing Dayu Zhixin Technology

Allwinner Technology

Shenzhen Yuntian Lifei Technology

Kalray

Aojie Technology

Zhonghao Xinying (Hangzhou) Technology

Chengdu Beizhong Wangxin Technology

Ruixin Microelectronics

Ruichuang Weina

Shanghai Fullhan Microelectronics

Xinrun Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Application-Specific AI Chip market?

What factors are driving Application-Specific AI Chip market growth, globally and by region?

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

How do Application-Specific AI Chip market opportunities vary by end market size?

How does Application-Specific AI Chip break out by Structure, by Application?

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