

Global AIoT SoC Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AIoT SoC market size was valued at US\$ 5819 million in 2024 and is forecast to a readjusted size of USD 8686 million by 2031 with a CAGR of 6.0% during review period.

AIoT refers to the integration of artificial intelligence (AI) technology into the field of Internet of Things (IoT), using IoT devices to widely collect and generate a large amount of data, and then using artificial intelligence algorithms to deeply analyze this data to achieve intelligent identification, positioning, tracking and supervision. This fusion technology not only combines the advantages of AI and IoT, but also collects massive data in multiple dimensions through IoT devices, which are either stored in the cloud or at the edge. Subsequently, with the help of AI technologies such as big data analysis and machine learning, the data is efficiently processed to promote intelligent applications to a higher level.

SoC is a highly integrated chip circuit that integrates key components of the system on a single chip and can complete all the functions of the system. SoC usually has a built-in CPU and GPU, and according to actual application requirements, ISP, NPU, multimedia codec and audio processor and other core processing units can be flexibly added. The chip is designed with a high-speed bus to ensure smooth data transmission between each processing unit and the external interface. At the same time, SoC is also equipped with a wealth of interfaces, including flash memory interface, storage interface, display interface, network interface, and various high-speed and low-speed data transmission interfaces to meet diverse connection and data transmission needs.

In 2023, the field of artificial intelligence large models has ushered in a new era of rapid development. This trend has not only greatly promoted the surge in demand for AI

computing power, but also prompted AI applications to penetrate deeply into all walks of life at an unprecedented speed, gradually covering and Changing all aspects of human society. According to the forecast, by 2026, more than 80% of enterprises will actively embrace generative artificial intelligence, which includes adopting generative AI models or APIs and deploying applications that support this technology in production environments. program. In stark contrast, at the beginning of 2023, this proportion was less than 5%, showing that the acceptance and application breadth of AI technology in the corporate world is experiencing explosive growth.

As artificial intelligence technology accelerates from theory to practice, the speed and breadth of its implementation have reached new heights. In this context, the development of edge-side and end-side artificial intelligence is particularly eye-catching. Thanks to the efficiency of local data processing, significant savings in cloud server bandwidth and computing power costs, and enhanced protection of user data privacy, large AI models have begun to be used in mobile phones, personal computers (PCs), tablets, cars, and Deployed and run on many emerging smart terminals. These devices can directly utilize AI technology for real-time data processing and analysis, eliminating the need to upload data to the cloud, thus greatly improving response speed and security.

Looking forward to the next 2 to 3 years, edge-side and end-side artificial intelligence will usher in an unprecedented period of rapid development. This will directly drive the leapfrog upgrade of AIoT (Artificial Intelligence Internet of Things) from single-point application to full popularization. AIoT will no longer be limited to simple connections and data transmission, but will deeply integrate AI's intelligent decision-making and data processing capabilities into every corner of the Internet of Things, achieving all-round intelligence from devices to systems, and from data to decision-making. This change will not only greatly enhance the efficiency and value of the Internet of Things, but also inject new impetus into the sustainable development of human society.

This report is a detailed and comprehensive analysis for global AIoT SoC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AIoT SoC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Unit), 2020-2031

Global AIoT SoC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Unit), 2020-2031

Global AIoT SoC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (USD/K Unit), 2020-2031

Global AIoT SoC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (USD/K Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for AIoT SoC
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global AIoT SoC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel, Rockchip Electronics, SigmaStar, MediaTek, Fullhan, Ambarella, Hisilicon, Novatek Microelectronics, Shanghai Axera Semiconductor Technology, Hunan Goke Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AIoT SoC market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

ARM SoC

RISC-V SoC

x86 SoC

Market segment by Application

Security Monitoring

Edge Computing

Industrial Automation

Smart Home

Consumer Electronics

Others

Major players covered

Intel

Rockchip Electronics

SigmaStar

MediaTek

Fullhan

Ambarella

Hisilicon

Novatek Microelectronics

Shanghai Axera Semiconductor Technology

Hunan Goke Microelectronics

Renesas Electronics

Allwinner Technology

Qualcomm

Anyka Microelectronics

TI

iCatch Technology

Socionext Inc

Beijing Ingenic

NXP Semiconductors

Kneron

Shenzhen Honghan Microelectronics

AMLogic Inc

Bestechnic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AIoT SoC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AIoT SoC, with price, sales quantity, revenue, and global market share of AIoT SoC from 2020 to 2025.

Chapter 3, the AIoT SoC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AIoT SoC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and AIoT SoC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AIoT SoC.

Chapter 14 and 15, to describe AIoT SoC sales channel, distributors, customers, research findings and conclusion.

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