

Global AI in Hardware Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI in Hardware market size is expected to reach \$ 116234 million by 2032, rising at a market growth of 17.7% CAGR during the forecast period (2026-2032).

This report covers consumer-grade AI in hardware. Consumer Grade AI in Hardware refers to a smart hardware device designed for everyday users that integrates artificial intelligence capabilities to perform perception, understanding, and interaction tasks locally or through the cloud. Unlike industrial AI systems, consumer-grade AI in Hardware emphasizes usability, affordability, and human-centered interaction. They include products such as AI smartphones, smart speakers, home robots, AR/VR headsets, and AI-powered wearables. These devices use embedded AI chips, sensors, and algorithms for functions like voice and image recognition, real-time translation, behavior prediction, and personalized recommendations. In essence, consumer AI in Hardware serves as the interface between individuals and intelligent ecosystems, bringing AI-driven services into daily life while advancing the broader vision of ambient and ubiquitous computing.

The upstream of consumer grade AI in Hardware mainly involves the core technology and component supply chain, including semiconductor chips (AI processors, GPUs, NPUs), sensors (cameras, microphones, motion detectors), display panels, batteries, and communication modules. It also includes software infrastructure such as operating systems, AI frameworks, and cloud computing platforms that enable data processing, machine learning, and connectivity. Key upstream contributors are chip manufacturers, component suppliers, and AI algorithm developers. The downstream covers the manufacturing, integration, and application of AI in Hardware in the consumer market. This includes device assemblers, brand manufacturers, and distributors that bring AI-enabled products like smartphones, smart home devices, wearables, and personal assistants to consumers. Beyond product sales, the downstream also extends to digital service ecosystems such as intelligent voice assistants, cloud data services, and app

platforms that continuously enhance user experience through AI-driven interaction and personalization.

As an important force driving a new round of scientific and technological revolution, artificial intelligence has been of national strategic importance. Many governments introduces polices and increase capital investment to support AI companies. The Digital Europe plan adopted by the European Union will allocate ?9.2 billion on high-tech investments, such as supercomputing, artificial intelligence, and network security. In order to maintain its leading position, the United States will increase its investment in artificial intelligence research and development in non-defense fields, from US\$1.6 billion to US\$1.7 billion in 2022. According to the latest data released by IDC, global artificial intelligence revenue was US\$432.8 billion in 2022, a year-on-year increase of 19.89%, including software, hardware and services.

This report studies the global AI in Hardware production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI in Hardware and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI in Hardware that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI in Hardware total production and demand, 2021-2032, (K Units)

Global AI in Hardware total production value, 2021-2032, (USD Million)

Global AI in Hardware production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI in Hardware consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI in Hardware domestic production, consumption, key domestic manufacturers and share

Global AI in Hardware production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI in Hardware production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI in Hardware production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI in Hardware 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 Lenovo, Huawei, Apple, Honor, vivo, Xiaomi, OPPO, ASUS, HP, Dell, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI in Hardware 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI in Hardware Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI in Hardware Market, Segmentation by Type:

AIPC

AI Phone

AI Wearable Devices

Others

Global AI in Hardware Market, Segmentation by Technological Evolution:

Upgraded AI Terminal

Native AI Terminal

Global AI in Hardware Market, Segmentation by Sales Channels:

Dealer

Operator

Others

Global AI in Hardware Market, Segmentation by Application:

Personal

Business

Public

Companies Profiled:

Lenovo

Huawei

Apple

Honor

vivo

Xiaomi

OPPO

ASUS

HP

Dell

Realme

Meizu

Samsung

Microsoft

Acer

Red Magic (ZTE)

Google

Key Questions Answered:

1. How big is the global AI in Hardware market?
2. What is the demand of the global AI in Hardware market?
3. What is the year over year growth of the global AI in Hardware market?
4. What is the production and production value of the global AI in Hardware market?
5. Who are the key producers in the global AI in Hardware market?
6. What are the growth factors driving the market demand?

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