

Global AI PC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI PC market size is expected to reach \$ 402 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

In 2025, global AI pc production reached approximately 121 k units, the average price is 1200 usd/unit. An AI pc is a personal computer that integrates specialized AI hardware to enhance your experience, protect privacy and inspire creativity by processing AI tasks locally.

Market Concentration and Key Players:

Internationally, the market concentration degree of artificial intelligence computer is relatively high, mainly concentrated in Europe and America and other developed countries. For example, Microsoft and other large manufacturers; from the domestic point of view, artificial intelligence computers still have a lot of room for development.

Manufacturing Processes and Market Trends:

At the heart of the artificial intelligence computer's manufacturing process is the integration of heterogeneous computing architectures, which efficiently cooperate with the central processing unit, graphics processor and neural network processing unit specially designed for neural networks. This involves complex hardware design, such as the use of advanced packaging technologies such as Foveros 3D to enhance integration, and the widespread use of high-bandwidth memory such as DDR5 or even HBM to meet the computing power needs of large models running locally. Cooling systems have also been upgraded to vapor chambers or even liquid cooling solutions to cope with high power consumption. At the production end, Lenovo and other

manufacturers adopt flexible manufacturing and digital twin technology to realize rapid model change and process optimization of production line.

The market trend shows that AI PC has entered a period of rapid penetration, and the penetration rate is expected to reach 81% in 2027. The growth is driven by the replacement cycle, the commercial needs of Windows 10 out of service, and the advantages of end-side AI reasoning in terms of low latency and high privacy. The focus of competition is shifting from hardware performance to ecosystem capabilities, with vendors accelerating end-side large model deployments and building open application ecosystems. Upstream and downstream of the industrial chain, from chip manufacturers to ODM/OEM manufacturers, are actively laying out to promote the improvement of hardware value and the expansion of market scale. The future development trend will focus on application explosion and agent capability iteration, and the key is to improve user experience through technological breakthrough and ecological collaboration.

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

This report is a detailed and comprehensive analysis of the world market for AI PC 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 PC that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

Global AI PC production by Specification, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global AI PC 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 Intel, AMD, HP, Lenovo, Acer, Asus, Dell, Canalsys, Microsoft, Apple, 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 PC 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 Specification, 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 PC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI PC Market, Segmentation by Specification:

General-purpose

Specialized-purpose

Global AI PC Market, Segmentation by Framework:

CPU and GPU

CPU and NPU

Global AI PC Market, Segmentation by End Use:

AI Workstation

Edge AI Computer

Embedded AI Computer

AI Office Computer

Global AI PC Market, Segmentation by Application:

Individual

Enterprise

Companies Profiled:

Intel

AMD

HP

Lenovo

Acer

Asus

Dell

Canalys

Microsoft

Apple

Samsung

Razer

Supermicro

Key Questions Answered:

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

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