

Global Artificial Intelligence for Edge Devices Market Growth (Status and Outlook) 2025-2031

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Abstracts

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According to this study, the global Artificial Intelligence for Edge Devices market size will reach US\$ 21450 million by 2031.

Artificial intelligence (AI) processing today is mostly done in a cloud-based data center. The majority of AI processing is dominated by training of deep learning models, which requires heavy compute capacity. Artificial intelligence for edge devices means that AI software algorithms are processed locally on a hardware device. The algorithms are using data (sensor data or signals) that are created on the device. A device using Edge AI software does not need to be connected in order to work properly, it can process data and take decisions independently without a connection. In this report, artificial intelligence for edge devices contains software tools, platforms, artificial intelligence chip.

Global Artificial Intelligence for Edge Devices key players include Microsoft, Qualcomm, Intel, Google, Alibaba, etc. Global top five manufacturers hold a share over 50%.

North America is the largest market, with a share about 45%, followed by Europe and China, both have a share over 30 percent.

In terms of product, Hardware is the largest segment, with a share about 70%. And in terms of application, the largest application is Mobile Phones, followed by Smart Speakers.

This report presents a comprehensive overview, market shares, and growth

opportunities of Artificial Intelligence for Edge Devices market by product type, application, key players and key regions and countries.

Segmentation by Type:

Hardware

Software

Segmentation by Application:

Automotive

Consumer and Enterprise Robotics

Drones

Head-Mounted Displays

Smart Speakers

Security Cameras

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Microsoft

Qualcomm

Intel

Google

Alibaba

NVIDIA

Arm

Horizon Robotics

Baidu

Synopsys

Cambricon

MediaTek

Mythic

NXP

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