

Global AI Edge Computing Devices Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Edge Computing Devices market size is expected to reach \$ 1131 million by 2032, rising at a market growth of 11.4% CAGR during the forecast period (2026-2032).

AI edge computing devices refer to hardware entities that integrate artificial intelligence algorithms and computing capabilities at the network edge, close to the data source. They play multiple roles, including data acquisition, real-time processing, intelligent reasoning, and collaborative response. In terms of form, AI edge computing devices exhibit a high degree of diversity and hierarchy: from tiny AI modules that can embed sensors, to common industrial-grade AI edge computing boxes and gateways, to large AI edge servers capable of supporting the analysis of dozens of video streams. AI edge computing devices have been widely applied in scenarios such as smart security (facial recognition, smoke detection), smart transportation (license plate recognition, traffic flow analysis), industrial IoT (predictive maintenance, product defect detection), and smart agriculture (pest monitoring, irrigation control), becoming a key infrastructure driving the digital transformation of various industries.

In 2025, global AI Edge Computing Device sale reached approximately 735 K Units, with an average global market price of around 730 US\$/Unit. Production capacity reached 1,000 K Units, with a gross profit margin of approximately 36%.

AI edge computing devices typically refer to computing terminals deployed close to the data source, capable of locally completing data acquisition, preprocessing, model running, and real-time inference. Typical forms include industrial-grade edge AI boxes, edge AI gateways, compact inference servers, and dedicated edge systems for vision/robotics scenarios. Advantech defines its Edge AI Systems as compact industrial

computers based on platforms such as NVIDIA Jetson, capable of locally processing video and sensor data at the edge, suitable for smart cities, factory automation, and robotics. Its edge AI boxes further emphasize a compact AI NPU, fanless wide-temperature chassis, GbE/PoE, USB, serial ports, and CAN-FD industrial interfaces, indicating that such products must possess both computing power and device connectivity and field adaptability.

This report studies the global AI Edge Computing Devices production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global AI Edge Computing Devices total production and demand, 2021-2032, (K Units)

Global AI Edge Computing Devices total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: AI Edge Computing Devices domestic production, consumption, key domestic manufacturers and share

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

Global AI Edge Computing Devices production by Computing Power, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global AI Edge Computing Devices 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 Advantech, Mistral Solutions, Forecr, Jwipc Technology, Guangzhou STONKAM, Shenzhen Geniatech, Inventec, Shenzhen CoreRain, Sichuan Wanwu Zongheng Technology, Guangzhou Embedded Machine

Technology, 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 Edge Computing Devices 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 Computing Power, 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 Edge Computing Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Edge Computing Devices Market, Segmentation by Computing Power:

Below 20 TOPS

20-100 TOPS

Above 100TOPS

Global AI Edge Computing Devices Market, Segmentation by Type:

CPU-based

GPU-based

NPU/TPU/VPU-based

FPGA-based

Others

Global AI Edge Computing Devices Market, Segmentation by Physical Form:

Standard Commercial Box

Micro AI Module

Global AI Edge Computing Devices Market, Segmentation by Application:

Smart Manufacturing

Smart City

Retail Industry

Smart Mining

Autonomous Driving

Others

Companies Profiled:

Advantech

Mistral Solutions

Forecr

Jwipc Technology

Guangzhou STONKAM

Shenzhen Geniatech

Inventec

Shenzhen CoreRain

Sichuan Wanwu Zongheng Technology

Guangzhou Embedded Machine Technology

Shenzhen King Histrong

Thundercomm

Shenzhen Smart Device Technology

Amnimo Inc

ADLINK Technology

Eurotech

AAEON Technology

Shenzhen Micagent

Changzhou Haitu Electronic

Ingrasys

EDGEMATRIX

ARBOR

Hangzhou Yanzhi Technology

Twowin Technology

Newland Digital Technology

Beijing NexGemo Technology

Alibaba Cloud

PlanetSpark

Lenovo

Baidu

HIKVISION

Dahua Technology

Huawei Technologies

Tencent

Beijing SOPHGO

Key Questions Answered:

1. How big is the global AI Edge Computing Devices market?
2. What is the demand of the global AI Edge Computing Devices market?
3. What is the year over year growth of the global AI Edge Computing Devices market?
4. What is the production and production value of the global AI Edge Computing

Devices market?

5. Who are the key producers in the global AI Edge Computing Devices market?

6. What are the growth factors driving the market demand?

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