

Global AI Edge Computing Devices Market Growth 2026-2032

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Abstracts

The global AI Edge Computing Devices market size is predicted to grow from US\$ 525 million in 2025 to US\$ 1117 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "AI Edge Computing Devices Industry Forecast" looks at past sales and reviews total world AI Edge Computing Devices sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Edge Computing Devices sales for 2026 through 2032. With AI Edge Computing Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Edge Computing Devices industry.

This Insight Report provides a comprehensive analysis of the global AI Edge Computing Devices landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Edge Computing Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Edge Computing Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Edge Computing Devices and breaks down the forecast by Computing Power, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI Edge Computing Devices.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Edge Computing Devices market by product type, application, key manufacturers and key regions and countries.

Segmentation by Computing Power:

Below 20 TOPS

20-100 TOPS

Above 100TOPS

Segmentation by Type:

CPU-based

GPU-based

NPU/TPU/VPU-based

FPGA-based

Others

Segmentation by Physical Form:

Standard Commercial Box

Micro AI Module

Segmentation by Application:

Smart Manufacturing

Smart City

Retail Industry

Smart Mining

Autonomous Driving

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global AI Edge Computing Devices market?

What factors are driving AI Edge Computing Devices market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Edge Computing Devices market opportunities vary by end market size?

How does AI Edge Computing Devices break out by Computing Power, by Application?

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