

Global AI Edge Computing Devices Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Edge Computing Devices market size was valued at US\$ 552 million in 2025 and is forecast to a readjusted size of US\$ 1131 million by 2032 with a CAGR of 11.4% during review period.

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 is a detailed and comprehensive analysis for global AI Edge Computing Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Computing Power and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Edge Computing Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Edge Computing Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Edge Computing Devices market size and forecasts, by Computing Power and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI Edge Computing Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI Edge Computing Devices

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Edge Computing Devices market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

AI Edge Computing Devices market is split by Computing Power and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Computing Power, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Computing Power

Below 20 TOPS

20-100 TOPS

Above 100TOPS

Market segment by Type

CPU-based

GPU-based

NPU/TPU/VPU-based

FPGA-based

Others

Market segment by Physical Form

Standard Commercial Box

Micro AI Module

Market segment by Application

Smart Manufacturing

Smart City

Retail Industry

Smart Mining

Autonomous Driving

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Edge Computing Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Edge Computing Devices, with price, sales quantity, revenue, and global market share of AI Edge Computing Devices from 2021 to 2026.

Chapter 3, the AI Edge Computing Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Edge Computing Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Computing Power and by Application, with sales market share and growth rate by Computing Power, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Edge Computing Devices market forecast, by regions, by Computing Power, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Edge Computing Devices.

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