

Global AI Edge Inference Boxes Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDACB4B85F7EEN.html>

Date: July 2026

Pages: 200

Price: US\$ 4,480.00 (Single User License)

ID: GDACB4B85F7EEN

Abstracts

The global AI Edge Inference Boxes market size is expected to reach \$ 983 million by 2032, rising at a market growth of 12.4% CAGR during the forecast period (2026-2032).

AI edge inference boxes are embedded hardware devices designed for edge computing scenarios and specifically for forward inference of artificial intelligence models. They can be seen as a front-end extension of the cloud brain at the data source. They deploy trained deep learning models (such as object detection, image classification, and speech recognition) directly at the network edge near terminal devices like cameras and sensors, enabling real-time intelligent analysis without transmitting raw data to the cloud.

In terms of hardware, AI edge inference boxes typically integrate low-power AI acceleration chips, multi-core CPUs, large-capacity memory, and rich physical interfaces. They also have a built-in lightweight operating system and inference framework, supporting efficient conversion and execution of mainstream models such as TensorFlow, PyTorch, ONNX, and PaddlePaddle. AI edge inference boxes are evolving from auxiliary sensing devices into autonomous decision-making front-end intelligent agents, widely empowering various industries such as smart security, smart transportation, smart retail, industrial quality inspection, and intelligent patrol, becoming a key carrier for promoting the implementation of the 'cloud-edge-device collaborative' computing paradigm.

In 2025, global AI Edge Inference Box sale reached approximately 582 K Units, with an average global market price of around 740 US\$/Unit. Production capacity reached 850 K Units, with a gross profit margin of approximately 38%.

AI edge inference boxes typically refer to compact edge computing devices deployed in factories, transportation, retail, security, energy, healthcare, or robotics environments. Their core function is to perform real-time inference of video, image, sensor, and multimodal data locally, rather than sending all raw data back to the cloud for processing. Advantech defines its AI edge system as a compact industrial computer based on platforms such as NVIDIA Jetson, capable of processing video and sensor data locally at the edge, suitable for smart cities, factory automation, and robotics. ADLINK defines its DLAP series as a platform for high-performance AI inference at the edge, emphasizing GPU and NPU acceleration, industrial-grade reliability, and manageability. Huawei explicitly defines the Atlas 500 as an edge device integrating AI processing capabilities, suitable for scenarios such as transportation, smart manufacturing, and unmanned retail.

This report studies the global AI Edge Inference Boxes production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global AI Edge Inference Boxes total production and demand, 2021-2032, (K Units)

Global AI Edge Inference Boxes total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global AI Edge Inference Boxes 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 Inference Boxes 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 Inference Boxes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Edge Inference Boxes Market, Segmentation by Computing Power:

Below 20 TOPS

20-100 TOPS

Above 100TOPS

Global AI Edge Inference Boxes Market, Segmentation by Type:

CPU-based

GPU-based

NPU/TPU/VPU-based

FPGA-based

Others

Global AI Edge Inference Boxes Market, Segmentation by Physical Form:

Standard Commercial Box

Micro AI Module

Global AI Edge Inference Boxes 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 Inference Boxes market?
2. What is the demand of the global AI Edge Inference Boxes market?
3. What is the year over year growth of the global AI Edge Inference Boxes market?
4. What is the production and production value of the global AI Edge Inference Boxes market?
5. Who are the key producers in the global AI Edge Inference Boxes market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 AI Edge Inference Boxes Introduction
- 1.2 World AI Edge Inference Boxes Supply & Forecast
 - 1.2.1 World AI Edge Inference Boxes Production Value (2021 & 2025 & 2032)
 - 1.2.2 World AI Edge Inference Boxes Production (2021-2032)
 - 1.2.3 World AI Edge Inference Boxes Pricing Trends (2021-2032)
- 1.3 World AI Edge Inference Boxes Production by Region (Based on Production Site)
 - 1.3.1 World AI Edge Inference Boxes Production Value by Region (2021-2032)
 - 1.3.2 World AI Edge Inference Boxes Production by Region (2021-2032)
 - 1.3.3 World AI Edge Inference Boxes Average Price by Region (2021-2032)
 - 1.3.4 North America AI Edge Inference Boxes Production (2021-2032)
 - 1.3.5 Europe AI Edge Inference Boxes Production (2021-2032)
 - 1.3.6 China AI Edge Inference Boxes Production (2021-2032)
 - 1.3.7 Japan AI Edge Inference Boxes Production (2021-2032)
 - 1.3.8 China Taiwan AI Edge Inference Boxes Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 AI Edge Inference Boxes Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 AI Edge Inference Boxes Major Market Trends

2 DEMAND SUMMARY

- 2.1 World AI Edge Inference Boxes Demand (2021-2032)
- 2.2 World AI Edge Inference Boxes Consumption by Region
 - 2.2.1 World AI Edge Inference Boxes Consumption by Region (2021-2026)
 - 2.2.2 World AI Edge Inference Boxes Consumption Forecast by Region (2027-2032)
- 2.3 United States AI Edge Inference Boxes Consumption (2021-2032)
- 2.4 China AI Edge Inference Boxes Consumption (2021-2032)
- 2.5 Europe AI Edge Inference Boxes Consumption (2021-2032)
- 2.6 Japan AI Edge Inference Boxes Consumption (2021-2032)
- 2.7 South Korea AI Edge Inference Boxes Consumption (2021-2032)
- 2.8 ASEAN AI Edge Inference Boxes Consumption (2021-2032)
- 2.9 India AI Edge Inference Boxes Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AI Edge Inference Boxes Production Value by Manufacturer (2021-2026)
- 3.2 World AI Edge Inference Boxes Production by Manufacturer (2021-2026)
- 3.3 World AI Edge Inference Boxes Average Price by Manufacturer (2021-2026)
- 3.4 AI Edge Inference Boxes Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AI Edge Inference Boxes Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AI Edge Inference Boxes in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AI Edge Inference Boxes in 2025
- 3.6 AI Edge Inference Boxes Market: Overall Company Footprint Analysis
 - 3.6.1 AI Edge Inference Boxes Market: Region Footprint
 - 3.6.2 AI Edge Inference Boxes Market: Company Product Type Footprint
 - 3.6.3 AI Edge Inference Boxes Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AI Edge Inference Boxes Production Value Comparison
 - 4.1.1 United States VS China: AI Edge Inference Boxes Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: AI Edge Inference Boxes Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: AI Edge Inference Boxes Production Comparison
 - 4.2.1 United States VS China: AI Edge Inference Boxes Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: AI Edge Inference Boxes Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: AI Edge Inference Boxes Consumption Comparison
 - 4.3.1 United States VS China: AI Edge Inference Boxes Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: AI Edge Inference Boxes Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based AI Edge Inference Boxes Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based AI Edge Inference Boxes Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers AI Edge Inference Boxes Production Value (2021-2026)

4.4.3 United States Based Manufacturers AI Edge Inference Boxes Production (2021-2026)

4.5 China Based AI Edge Inference Boxes Manufacturers and Market Share

4.5.1 China Based AI Edge Inference Boxes Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AI Edge Inference Boxes Production Value (2021-2026)

4.5.3 China Based Manufacturers AI Edge Inference Boxes Production (2021-2026)

4.6 Rest of World Based AI Edge Inference Boxes Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AI Edge Inference Boxes Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AI Edge Inference Boxes Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AI Edge Inference Boxes Production (2021-2026)

5 MARKET ANALYSIS BY COMPUTING POWER

5.1 World AI Edge Inference Boxes Market Size Overview by Computing Power: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Computing Power

5.2.1 Below 20 TOPS

5.2.2 20-100 TOPS

5.2.3 Above 100TOPS

5.3 Market Segment by Computing Power

5.3.1 World AI Edge Inference Boxes Production by Computing Power (2021-2032)

5.3.2 World AI Edge Inference Boxes Production Value by Computing Power (2021-2032)

5.3.3 World AI Edge Inference Boxes Average Price by Computing Power (2021-2032)

6 MARKET ANALYSIS BY TYPE

6.1 World AI Edge Inference Boxes Market Size Overview by Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Type

- 6.2.1 CPU-based
- 6.2.2 GPU-based
- 6.2.3 NPU/TPU/VPU-based
- 6.2.4 FPGA-based
- 6.2.5 Others

6.3 Market Segment by Type

- 6.3.1 World AI Edge Inference Boxes Production by Type (2021-2032)
- 6.3.2 World AI Edge Inference Boxes Production Value by Type (2021-2032)
- 6.3.3 World AI Edge Inference Boxes Average Price by Type (2021-2032)

7 MARKET ANALYSIS BY PHYSICAL FORM

7.1 World AI Edge Inference Boxes Market Size Overview by Physical Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Physical Form

- 7.2.1 Standard Commercial Box
- 7.2.2 Micro AI Module

7.3 Market Segment by Physical Form

- 7.3.1 World AI Edge Inference Boxes Production by Physical Form (2021-2032)
- 7.3.2 World AI Edge Inference Boxes Production Value by Physical Form (2021-2032)
- 7.3.3 World AI Edge Inference Boxes Average Price by Physical Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI Edge Inference Boxes Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Smart Manufacturing
- 8.2.2 Smart City
- 8.2.3 Retail Industry
- 8.2.4 Smart Mining
- 8.2.5 Autonomous Driving
- 8.2.6 Others

8.3 Market Segment by Application

- 8.3.1 World AI Edge Inference Boxes Production by Application (2021-2032)
- 8.3.2 World AI Edge Inference Boxes Production Value by Application (2021-2032)
- 8.3.3 World AI Edge Inference Boxes Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Advantech

9.1.1 Advantech Details

9.1.2 Advantech Major Business

9.1.3 Advantech AI Edge Inference Boxes Product and Services

9.1.4 Advantech AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Advantech Recent Developments/Updates

9.1.6 Advantech Competitive Strengths & Weaknesses

9.2 Mistral Solutions

9.2.1 Mistral Solutions Details

9.2.2 Mistral Solutions Major Business

9.2.3 Mistral Solutions AI Edge Inference Boxes Product and Services

9.2.4 Mistral Solutions AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mistral Solutions Recent Developments/Updates

9.2.6 Mistral Solutions Competitive Strengths & Weaknesses

9.3 Forecr

9.3.1 Forecr Details

9.3.2 Forecr Major Business

9.3.3 Forecr AI Edge Inference Boxes Product and Services

9.3.4 Forecr AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Forecr Recent Developments/Updates

9.3.6 Forecr Competitive Strengths & Weaknesses

9.4 Jwipc Technology

9.4.1 Jwipc Technology Details

9.4.2 Jwipc Technology Major Business

9.4.3 Jwipc Technology AI Edge Inference Boxes Product and Services

9.4.4 Jwipc Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Jwipc Technology Recent Developments/Updates

9.4.6 Jwipc Technology Competitive Strengths & Weaknesses

9.5 Guangzhou STONKAM

9.5.1 Guangzhou STONKAM Details

9.5.2 Guangzhou STONKAM Major Business

9.5.3 Guangzhou STONKAM AI Edge Inference Boxes Product and Services

9.5.4 Guangzhou STONKAM AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 Guangzhou STONKAM Recent Developments/Updates
- 9.5.6 Guangzhou STONKAM Competitive Strengths & Weaknesses
- 9.6 Shenzhen Geniatech
 - 9.6.1 Shenzhen Geniatech Details
 - 9.6.2 Shenzhen Geniatech Major Business
 - 9.6.3 Shenzhen Geniatech AI Edge Inference Boxes Product and Services
 - 9.6.4 Shenzhen Geniatech AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Shenzhen Geniatech Recent Developments/Updates
 - 9.6.6 Shenzhen Geniatech Competitive Strengths & Weaknesses
- 9.7 Inventec
 - 9.7.1 Inventec Details
 - 9.7.2 Inventec Major Business
 - 9.7.3 Inventec AI Edge Inference Boxes Product and Services
 - 9.7.4 Inventec AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Inventec Recent Developments/Updates
 - 9.7.6 Inventec Competitive Strengths & Weaknesses
- 9.8 Shenzhen CoreRain
 - 9.8.1 Shenzhen CoreRain Details
 - 9.8.2 Shenzhen CoreRain Major Business
 - 9.8.3 Shenzhen CoreRain AI Edge Inference Boxes Product and Services
 - 9.8.4 Shenzhen CoreRain AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Shenzhen CoreRain Recent Developments/Updates
 - 9.8.6 Shenzhen CoreRain Competitive Strengths & Weaknesses
- 9.9 Sichuan Wanwu Zongheng Technology
 - 9.9.1 Sichuan Wanwu Zongheng Technology Details
 - 9.9.2 Sichuan Wanwu Zongheng Technology Major Business
 - 9.9.3 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product and Services
 - 9.9.4 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Sichuan Wanwu Zongheng Technology Recent Developments/Updates
 - 9.9.6 Sichuan Wanwu Zongheng Technology Competitive Strengths & Weaknesses
- 9.10 Guangzhou Embedded Machine Technology
 - 9.10.1 Guangzhou Embedded Machine Technology Details
 - 9.10.2 Guangzhou Embedded Machine Technology Major Business
 - 9.10.3 Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product

and Services

9.10.4 Guangzhou Embedded Machine Technology AI Edge Inference Boxes
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Guangzhou Embedded Machine Technology Recent Developments/Updates

9.10.6 Guangzhou Embedded Machine Technology Competitive Strengths &
Weaknesses

9.11 Shenzhen King Histrong

9.11.1 Shenzhen King Histrong Details

9.11.2 Shenzhen King Histrong Major Business

9.11.3 Shenzhen King Histrong AI Edge Inference Boxes Product and Services

9.11.4 Shenzhen King Histrong AI Edge Inference Boxes Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.11.5 Shenzhen King Histrong Recent Developments/Updates

9.11.6 Shenzhen King Histrong Competitive Strengths & Weaknesses

9.12 Thundercomm

9.12.1 Thundercomm Details

9.12.2 Thundercomm Major Business

9.12.3 Thundercomm AI Edge Inference Boxes Product and Services

9.12.4 Thundercomm AI Edge Inference Boxes Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.12.5 Thundercomm Recent Developments/Updates

9.12.6 Thundercomm Competitive Strengths & Weaknesses

9.13 Shenzhen Smart Device Technology

9.13.1 Shenzhen Smart Device Technology Details

9.13.2 Shenzhen Smart Device Technology Major Business

9.13.3 Shenzhen Smart Device Technology AI Edge Inference Boxes Product and
Services

9.13.4 Shenzhen Smart Device Technology AI Edge Inference Boxes Production,
Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Shenzhen Smart Device Technology Recent Developments/Updates

9.13.6 Shenzhen Smart Device Technology Competitive Strengths & Weaknesses

9.14 Amnimo Inc

9.14.1 Amnimo Inc Details

9.14.2 Amnimo Inc Major Business

9.14.3 Amnimo Inc AI Edge Inference Boxes Product and Services

9.14.4 Amnimo Inc AI Edge Inference Boxes Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.14.5 Amnimo Inc Recent Developments/Updates

9.14.6 Amnimo Inc Competitive Strengths & Weaknesses

9.15 ADLINK Technology

9.15.1 ADLINK Technology Details

9.15.2 ADLINK Technology Major Business

9.15.3 ADLINK Technology AI Edge Inference Boxes Product and Services

9.15.4 ADLINK Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 ADLINK Technology Recent Developments/Updates

9.15.6 ADLINK Technology Competitive Strengths & Weaknesses

9.16 Eurotech

9.16.1 Eurotech Details

9.16.2 Eurotech Major Business

9.16.3 Eurotech AI Edge Inference Boxes Product and Services

9.16.4 Eurotech AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Eurotech Recent Developments/Updates

9.16.6 Eurotech Competitive Strengths & Weaknesses

9.17 AAEON Technology

9.17.1 AAEON Technology Details

9.17.2 AAEON Technology Major Business

9.17.3 AAEON Technology AI Edge Inference Boxes Product and Services

9.17.4 AAEON Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 AAEON Technology Recent Developments/Updates

9.17.6 AAEON Technology Competitive Strengths & Weaknesses

9.18 Shenzhen Micagent

9.18.1 Shenzhen Micagent Details

9.18.2 Shenzhen Micagent Major Business

9.18.3 Shenzhen Micagent AI Edge Inference Boxes Product and Services

9.18.4 Shenzhen Micagent AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Shenzhen Micagent Recent Developments/Updates

9.18.6 Shenzhen Micagent Competitive Strengths & Weaknesses

9.19 Changzhou Haitu Electronic

9.19.1 Changzhou Haitu Electronic Details

9.19.2 Changzhou Haitu Electronic Major Business

9.19.3 Changzhou Haitu Electronic AI Edge Inference Boxes Product and Services

9.19.4 Changzhou Haitu Electronic AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Changzhou Haitu Electronic Recent Developments/Updates

9.19.6 Changzhou Haitu Electronic Competitive Strengths & Weaknesses

9.20 Ingrasys

9.20.1 Ingrasys Details

9.20.2 Ingrasys Major Business

9.20.3 Ingrasys AI Edge Inference Boxes Product and Services

9.20.4 Ingrasys AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 Ingrasys Recent Developments/Updates

9.20.6 Ingrasys Competitive Strengths & Weaknesses

9.21 EDGEMATRIX

9.21.1 EDGEMATRIX Details

9.21.2 EDGEMATRIX Major Business

9.21.3 EDGEMATRIX AI Edge Inference Boxes Product and Services

9.21.4 EDGEMATRIX AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.21.5 EDGEMATRIX Recent Developments/Updates

9.21.6 EDGEMATRIX Competitive Strengths & Weaknesses

9.22 ARBOR

9.22.1 ARBOR Details

9.22.2 ARBOR Major Business

9.22.3 ARBOR AI Edge Inference Boxes Product and Services

9.22.4 ARBOR AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.22.5 ARBOR Recent Developments/Updates

9.22.6 ARBOR Competitive Strengths & Weaknesses

9.23 Hangzhou Yanzhi Technology

9.23.1 Hangzhou Yanzhi Technology Details

9.23.2 Hangzhou Yanzhi Technology Major Business

9.23.3 Hangzhou Yanzhi Technology AI Edge Inference Boxes Product and Services

9.23.4 Hangzhou Yanzhi Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.23.5 Hangzhou Yanzhi Technology Recent Developments/Updates

9.23.6 Hangzhou Yanzhi Technology Competitive Strengths & Weaknesses

9.24 Twowin Technology

9.24.1 Twowin Technology Details

9.24.2 Twowin Technology Major Business

9.24.3 Twowin Technology AI Edge Inference Boxes Product and Services

9.24.4 Twowin Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.24.5 Twowin Technology Recent Developments/Updates
- 9.24.6 Twowin Technology Competitive Strengths & Weaknesses
- 9.25 Newland Digital Technology
 - 9.25.1 Newland Digital Technology Details
 - 9.25.2 Newland Digital Technology Major Business
 - 9.25.3 Newland Digital Technology AI Edge Inference Boxes Product and Services
 - 9.25.4 Newland Digital Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.25.5 Newland Digital Technology Recent Developments/Updates
 - 9.25.6 Newland Digital Technology Competitive Strengths & Weaknesses
- 9.26 Beijing NexGemo Technology
 - 9.26.1 Beijing NexGemo Technology Details
 - 9.26.2 Beijing NexGemo Technology Major Business
 - 9.26.3 Beijing NexGemo Technology AI Edge Inference Boxes Product and Services
 - 9.26.4 Beijing NexGemo Technology AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Beijing NexGemo Technology Recent Developments/Updates
 - 9.26.6 Beijing NexGemo Technology Competitive Strengths & Weaknesses
- 9.27 Alibaba Cloud
 - 9.27.1 Alibaba Cloud Details
 - 9.27.2 Alibaba Cloud Major Business
 - 9.27.3 Alibaba Cloud AI Edge Inference Boxes Product and Services
 - 9.27.4 Alibaba Cloud AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.27.5 Alibaba Cloud Recent Developments/Updates
 - 9.27.6 Alibaba Cloud Competitive Strengths & Weaknesses
- 9.28 PlanetSpark
 - 9.28.1 PlanetSpark Details
 - 9.28.2 PlanetSpark Major Business
 - 9.28.3 PlanetSpark AI Edge Inference Boxes Product and Services
 - 9.28.4 PlanetSpark AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.28.5 PlanetSpark Recent Developments/Updates
 - 9.28.6 PlanetSpark Competitive Strengths & Weaknesses
- 9.29 Lenovo
 - 9.29.1 Lenovo Details
 - 9.29.2 Lenovo Major Business
 - 9.29.3 Lenovo AI Edge Inference Boxes Product and Services
 - 9.29.4 Lenovo AI Edge Inference Boxes Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.29.5 Lenovo Recent Developments/Updates

9.29.6 Lenovo Competitive Strengths & Weaknesses

9.30 Baidu

9.30.1 Baidu Details

9.30.2 Baidu Major Business

9.30.3 Baidu AI Edge Inference Boxes Product and Services

9.30.4 Baidu AI Edge Inference Boxes Production, Price, Value, Gross Margin and

Market Share (2021-2026)

9.30.5 Baidu Recent Developments/Updates

9.30.6 Baidu Competitive Strengths & Weaknesses

9.31 HIKVISION

9.31.1 HIKVISION Details

9.31.2 HIKVISION Major Business

9.31.3 HIKVISION AI Edge Inference Boxes Product and Services

9.31.4 HIKVISION AI Edge Inference Boxes Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.31.5 HIKVISION Recent Developments/Updates

9.31.6 HIKVISION Competitive Strengths & Weaknesses

9.32 Dahua Technology

9.32.1 Dahua Technology Details

9.32.2 Dahua Technology Major Business

9.32.3 Dahua Technology AI Edge Inference Boxes Product and Services

9.32.4 Dahua Technology AI Edge Inference Boxes Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.32.5 Dahua Technology Recent Developments/Updates

9.32.6 Dahua Technology Competitive Strengths & Weaknesses

9.33 Huawei Technologies

9.33.1 Huawei Technologies Details

9.33.2 Huawei Technologies Major Business

9.33.3 Huawei Technologies AI Edge Inference Boxes Product and Services

9.33.4 Huawei Technologies AI Edge Inference Boxes Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.33.5 Huawei Technologies Recent Developments/Updates

9.33.6 Huawei Technologies Competitive Strengths & Weaknesses

9.34 Tencent

9.34.1 Tencent Details

9.34.2 Tencent Major Business

9.34.3 Tencent AI Edge Inference Boxes Product and Services

9.34.4 Tencent AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.34.5 Tencent Recent Developments/Updates

9.34.6 Tencent Competitive Strengths & Weaknesses

9.35 Beijing SOPHGO

9.35.1 Beijing SOPHGO Details

9.35.2 Beijing SOPHGO Major Business

9.35.3 Beijing SOPHGO AI Edge Inference Boxes Product and Services

9.35.4 Beijing SOPHGO AI Edge Inference Boxes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.35.5 Beijing SOPHGO Recent Developments/Updates

9.35.6 Beijing SOPHGO Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 AI Edge Inference Boxes Industry Chain

10.2 AI Edge Inference Boxes Upstream Analysis

10.2.1 AI Edge Inference Boxes Core Raw Materials

10.2.2 Main Manufacturers of AI Edge Inference Boxes Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 AI Edge Inference Boxes Production Mode

10.6 AI Edge Inference Boxes Procurement Model

10.7 AI Edge Inference Boxes Industry Sales Model and Sales Channels

10.7.1 AI Edge Inference Boxes Sales Model

10.7.2 AI Edge Inference Boxes Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AI Edge Inference Boxes Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI Edge Inference Boxes Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI Edge Inference Boxes Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI Edge Inference Boxes Production Value Market Share by Region (2021-2026)

Table 5. World AI Edge Inference Boxes Production Value Market Share by Region (2027-2032)

Table 6. World AI Edge Inference Boxes Production by Region (2021-2026) & (K Units)

Table 7. World AI Edge Inference Boxes Production by Region (2027-2032) & (K Units)

Table 8. World AI Edge Inference Boxes Production Market Share by Region (2021-2026)

Table 9. World AI Edge Inference Boxes Production Market Share by Region (2027-2032)

Table 10. World AI Edge Inference Boxes Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World AI Edge Inference Boxes Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. AI Edge Inference Boxes Major Market Trends

Table 13. World AI Edge Inference Boxes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World AI Edge Inference Boxes Consumption by Region (2021-2026) & (K Units)

Table 15. World AI Edge Inference Boxes Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World AI Edge Inference Boxes Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI Edge Inference Boxes Producers in 2025

Table 18. World AI Edge Inference Boxes Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key AI Edge Inference Boxes Producers in 2025

Table 20. World AI Edge Inference Boxes Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global AI Edge Inference Boxes Company Evaluation Quadrant

Table 22. World AI Edge Inference Boxes Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AI Edge Inference Boxes Production Site of Key Manufacturer

Table 24. AI Edge Inference Boxes Market: Company Product Type Footprint

Table 25. AI Edge Inference Boxes Market: Company Product Application Footprint

Table 26. AI Edge Inference Boxes Competitive Factors

Table 27. AI Edge Inference Boxes New Entrant and Capacity Expansion Plans

Table 28. AI Edge Inference Boxes Mergers & Acquisitions Activity

Table 29. United States VS China AI Edge Inference Boxes Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI Edge Inference Boxes Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China AI Edge Inference Boxes Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based AI Edge Inference Boxes Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI Edge Inference Boxes Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI Edge Inference Boxes Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI Edge Inference Boxes Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers AI Edge Inference Boxes Production Market Share (2021-2026)

Table 37. China Based AI Edge Inference Boxes Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI Edge Inference Boxes Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI Edge Inference Boxes Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI Edge Inference Boxes Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers AI Edge Inference Boxes Production Market Share (2021-2026)

Table 42. Rest of World Based AI Edge Inference Boxes Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI Edge Inference Boxes Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI Edge Inference Boxes Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI Edge Inference Boxes Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers AI Edge Inference Boxes Production Market Share (2021-2026)

Table 47. World AI Edge Inference Boxes Production Value by Computing Power, (USD Million), 2021 & 2025 & 2032

Table 48. World AI Edge Inference Boxes Production by Computing Power (2021-2026) & (K Units)

Table 49. World AI Edge Inference Boxes Production by Computing Power (2027-2032) & (K Units)

Table 50. World AI Edge Inference Boxes Production Value by Computing Power (2021-2026) & (USD Million)

Table 51. World AI Edge Inference Boxes Production Value by Computing Power (2027-2032) & (USD Million)

Table 52. World AI Edge Inference Boxes Average Price by Computing Power (2021-2026) & (US\$/Unit)

Table 53. World AI Edge Inference Boxes Average Price by Computing Power (2027-2032) & (US\$/Unit)

Table 54. World AI Edge Inference Boxes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 55. World AI Edge Inference Boxes Production by Type (2021-2026) & (K Units)

Table 56. World AI Edge Inference Boxes Production by Type (2027-2032) & (K Units)

Table 57. World AI Edge Inference Boxes Production Value by Type (2021-2026) & (USD Million)

Table 58. World AI Edge Inference Boxes Production Value by Type (2027-2032) & (USD Million)

Table 59. World AI Edge Inference Boxes Average Price by Type (2021-2026) & (US\$/Unit)

Table 60. World AI Edge Inference Boxes Average Price by Type (2027-2032) & (US\$/Unit)

Table 61. World AI Edge Inference Boxes Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 62. World AI Edge Inference Boxes Production by Physical Form (2021-2026) & (K Units)

Table 63. World AI Edge Inference Boxes Production by Physical Form (2027-2032) &

(K Units)

Table 64. World AI Edge Inference Boxes Production Value by Physical Form (2021-2026) & (USD Million)

Table 65. World AI Edge Inference Boxes Production Value by Physical Form (2027-2032) & (USD Million)

Table 66. World AI Edge Inference Boxes Average Price by Physical Form (2021-2026) & (US\$/Unit)

Table 67. World AI Edge Inference Boxes Average Price by Physical Form (2027-2032) & (US\$/Unit)

Table 68. World AI Edge Inference Boxes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AI Edge Inference Boxes Production by Application (2021-2026) & (K Units)

Table 70. World AI Edge Inference Boxes Production by Application (2027-2032) & (K Units)

Table 71. World AI Edge Inference Boxes Production Value by Application (2021-2026) & (USD Million)

Table 72. World AI Edge Inference Boxes Production Value by Application (2027-2032) & (USD Million)

Table 73. World AI Edge Inference Boxes Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World AI Edge Inference Boxes Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Advantech Basic Information, Manufacturing Base and Competitors

Table 76. Advantech Major Business

Table 77. Advantech AI Edge Inference Boxes Product and Services

Table 78. Advantech AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Advantech Recent Developments/Updates

Table 80. Advantech Competitive Strengths & Weaknesses

Table 81. Mistral Solutions Basic Information, Manufacturing Base and Competitors

Table 82. Mistral Solutions Major Business

Table 83. Mistral Solutions AI Edge Inference Boxes Product and Services

Table 84. Mistral Solutions AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Mistral Solutions Recent Developments/Updates

Table 86. Mistral Solutions Competitive Strengths & Weaknesses

Table 87. Forecr Basic Information, Manufacturing Base and Competitors

Table 88. Forecr Major Business

Table 89. Forecr AI Edge Inference Boxes Product and Services

Table 90. Forecr AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Forecr Recent Developments/Updates

Table 92. Forecr Competitive Strengths & Weaknesses

Table 93. Jwipc Technology Basic Information, Manufacturing Base and Competitors

Table 94. Jwipc Technology Major Business

Table 95. Jwipc Technology AI Edge Inference Boxes Product and Services

Table 96. Jwipc Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Jwipc Technology Recent Developments/Updates

Table 98. Jwipc Technology Competitive Strengths & Weaknesses

Table 99. Guangzhou STONKAM Basic Information, Manufacturing Base and Competitors

Table 100. Guangzhou STONKAM Major Business

Table 101. Guangzhou STONKAM AI Edge Inference Boxes Product and Services

Table 102. Guangzhou STONKAM AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Guangzhou STONKAM Recent Developments/Updates

Table 104. Guangzhou STONKAM Competitive Strengths & Weaknesses

Table 105. Shenzhen Geniatech Basic Information, Manufacturing Base and Competitors

Table 106. Shenzhen Geniatech Major Business

Table 107. Shenzhen Geniatech AI Edge Inference Boxes Product and Services

Table 108. Shenzhen Geniatech AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Shenzhen Geniatech Recent Developments/Updates

Table 110. Shenzhen Geniatech Competitive Strengths & Weaknesses

Table 111. Inventec Basic Information, Manufacturing Base and Competitors

Table 112. Inventec Major Business

Table 113. Inventec AI Edge Inference Boxes Product and Services

Table 114. Inventec AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Inventec Recent Developments/Updates

Table 116. Inventec Competitive Strengths & Weaknesses

Table 117. Shenzhen CoreRain Basic Information, Manufacturing Base and Competitors
Table 118. Shenzhen CoreRain Major Business
Table 119. Shenzhen CoreRain AI Edge Inference Boxes Product and Services
Table 120. Shenzhen CoreRain AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Shenzhen CoreRain Recent Developments/Updates
Table 122. Shenzhen CoreRain Competitive Strengths & Weaknesses
Table 123. Sichuan Wanwu Zongheng Technology Basic Information, Manufacturing Base and Competitors
Table 124. Sichuan Wanwu Zongheng Technology Major Business
Table 125. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product and Services
Table 126. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Sichuan Wanwu Zongheng Technology Recent Developments/Updates
Table 128. Sichuan Wanwu Zongheng Technology Competitive Strengths & Weaknesses
Table 129. Guangzhou Embedded Machine Technology Basic Information, Manufacturing Base and Competitors
Table 130. Guangzhou Embedded Machine Technology Major Business
Table 131. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product and Services
Table 132. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Guangzhou Embedded Machine Technology Recent Developments/Updates
Table 134. Guangzhou Embedded Machine Technology Competitive Strengths & Weaknesses
Table 135. Shenzhen King Histrong Basic Information, Manufacturing Base and Competitors
Table 136. Shenzhen King Histrong Major Business
Table 137. Shenzhen King Histrong AI Edge Inference Boxes Product and Services
Table 138. Shenzhen King Histrong AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Shenzhen King Histrong Recent Developments/Updates

Table 140. Shenzhen King Histrong Competitive Strengths & Weaknesses
Table 141. Thundercomm Basic Information, Manufacturing Base and Competitors
Table 142. Thundercomm Major Business
Table 143. Thundercomm AI Edge Inference Boxes Product and Services
Table 144. Thundercomm AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Thundercomm Recent Developments/Updates
Table 146. Thundercomm Competitive Strengths & Weaknesses
Table 147. Shenzhen Smart Device Technology Basic Information, Manufacturing Base and Competitors
Table 148. Shenzhen Smart Device Technology Major Business
Table 149. Shenzhen Smart Device Technology AI Edge Inference Boxes Product and Services
Table 150. Shenzhen Smart Device Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Shenzhen Smart Device Technology Recent Developments/Updates
Table 152. Shenzhen Smart Device Technology Competitive Strengths & Weaknesses
Table 153. Amnimo Inc Basic Information, Manufacturing Base and Competitors
Table 154. Amnimo Inc Major Business
Table 155. Amnimo Inc AI Edge Inference Boxes Product and Services
Table 156. Amnimo Inc AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Amnimo Inc Recent Developments/Updates
Table 158. Amnimo Inc Competitive Strengths & Weaknesses
Table 159. ADLINK Technology Basic Information, Manufacturing Base and Competitors
Table 160. ADLINK Technology Major Business
Table 161. ADLINK Technology AI Edge Inference Boxes Product and Services
Table 162. ADLINK Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. ADLINK Technology Recent Developments/Updates
Table 164. ADLINK Technology Competitive Strengths & Weaknesses
Table 165. Eurotech Basic Information, Manufacturing Base and Competitors
Table 166. Eurotech Major Business
Table 167. Eurotech AI Edge Inference Boxes Product and Services
Table 168. Eurotech AI Edge Inference Boxes Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Eurotech Recent Developments/Updates

Table 170. Eurotech Competitive Strengths & Weaknesses

Table 171. AAEON Technology Basic Information, Manufacturing Base and Competitors

Table 172. AAEON Technology Major Business

Table 173. AAEON Technology AI Edge Inference Boxes Product and Services

Table 174. AAEON Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. AAEON Technology Recent Developments/Updates

Table 176. AAEON Technology Competitive Strengths & Weaknesses

Table 177. Shenzhen Micagent Basic Information, Manufacturing Base and Competitors

Table 178. Shenzhen Micagent Major Business

Table 179. Shenzhen Micagent AI Edge Inference Boxes Product and Services

Table 180. Shenzhen Micagent AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Shenzhen Micagent Recent Developments/Updates

Table 182. Shenzhen Micagent Competitive Strengths & Weaknesses

Table 183. Changzhou Haitu Electronic Basic Information, Manufacturing Base and Competitors

Table 184. Changzhou Haitu Electronic Major Business

Table 185. Changzhou Haitu Electronic AI Edge Inference Boxes Product and Services

Table 186. Changzhou Haitu Electronic AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Changzhou Haitu Electronic Recent Developments/Updates

Table 188. Changzhou Haitu Electronic Competitive Strengths & Weaknesses

Table 189. Ingrasys Basic Information, Manufacturing Base and Competitors

Table 190. Ingrasys Major Business

Table 191. Ingrasys AI Edge Inference Boxes Product and Services

Table 192. Ingrasys AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Ingrasys Recent Developments/Updates

Table 194. Ingrasys Competitive Strengths & Weaknesses

Table 195. EDGEMATRIX Basic Information, Manufacturing Base and Competitors

Table 196. EDGEMATRIX Major Business

Table 197. EDGEMATRIX AI Edge Inference Boxes Product and Services

Table 198. EDGEMATRIX AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. EDGEMATRIX Recent Developments/Updates

Table 200. EDGEMATRIX Competitive Strengths & Weaknesses

Table 201. ARBOR Basic Information, Manufacturing Base and Competitors

Table 202. ARBOR Major Business

Table 203. ARBOR AI Edge Inference Boxes Product and Services

Table 204. ARBOR AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. ARBOR Recent Developments/Updates

Table 206. ARBOR Competitive Strengths & Weaknesses

Table 207. Hangzhou Yanzhi Technology Basic Information, Manufacturing Base and Competitors

Table 208. Hangzhou Yanzhi Technology Major Business

Table 209. Hangzhou Yanzhi Technology AI Edge Inference Boxes Product and Services

Table 210. Hangzhou Yanzhi Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Hangzhou Yanzhi Technology Recent Developments/Updates

Table 212. Hangzhou Yanzhi Technology Competitive Strengths & Weaknesses

Table 213. Twowin Technology Basic Information, Manufacturing Base and Competitors

Table 214. Twowin Technology Major Business

Table 215. Twowin Technology AI Edge Inference Boxes Product and Services

Table 216. Twowin Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Twowin Technology Recent Developments/Updates

Table 218. Twowin Technology Competitive Strengths & Weaknesses

Table 219. Newland Digital Technology Basic Information, Manufacturing Base and Competitors

Table 220. Newland Digital Technology Major Business

Table 221. Newland Digital Technology AI Edge Inference Boxes Product and Services

Table 222. Newland Digital Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Newland Digital Technology Recent Developments/Updates

Table 224. Newland Digital Technology Competitive Strengths & Weaknesses

Table 225. Beijing NexGemo Technology Basic Information, Manufacturing Base and Competitors

Table 226. Beijing NexGemo Technology Major Business

Table 227. Beijing NexGemo Technology AI Edge Inference Boxes Product and Services

Table 228. Beijing NexGemo Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Beijing NexGemo Technology Recent Developments/Updates

Table 230. Beijing NexGemo Technology Competitive Strengths & Weaknesses

Table 231. Alibaba Cloud Basic Information, Manufacturing Base and Competitors

Table 232. Alibaba Cloud Major Business

Table 233. Alibaba Cloud AI Edge Inference Boxes Product and Services

Table 234. Alibaba Cloud AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Alibaba Cloud Recent Developments/Updates

Table 236. Alibaba Cloud Competitive Strengths & Weaknesses

Table 237. PlanetSpark Basic Information, Manufacturing Base and Competitors

Table 238. PlanetSpark Major Business

Table 239. PlanetSpark AI Edge Inference Boxes Product and Services

Table 240. PlanetSpark AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. PlanetSpark Recent Developments/Updates

Table 242. PlanetSpark Competitive Strengths & Weaknesses

Table 243. Lenovo Basic Information, Manufacturing Base and Competitors

Table 244. Lenovo Major Business

Table 245. Lenovo AI Edge Inference Boxes Product and Services

Table 246. Lenovo AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 247. Lenovo Recent Developments/Updates

Table 248. Lenovo Competitive Strengths & Weaknesses

Table 249. Baidu Basic Information, Manufacturing Base and Competitors

Table 250. Baidu Major Business

Table 251. Baidu AI Edge Inference Boxes Product and Services

Table 252. Baidu AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 253. Baidu Recent Developments/Updates

Table 254. Baidu Competitive Strengths & Weaknesses
Table 255. HIKVISION Basic Information, Manufacturing Base and Competitors
Table 256. HIKVISION Major Business
Table 257. HIKVISION AI Edge Inference Boxes Product and Services
Table 258. HIKVISION AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 259. HIKVISION Recent Developments/Updates
Table 260. HIKVISION Competitive Strengths & Weaknesses
Table 261. Dahua Technology Basic Information, Manufacturing Base and Competitors
Table 262. Dahua Technology Major Business
Table 263. Dahua Technology AI Edge Inference Boxes Product and Services
Table 264. Dahua Technology AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 265. Dahua Technology Recent Developments/Updates
Table 266. Dahua Technology Competitive Strengths & Weaknesses
Table 267. Huawei Technologies Basic Information, Manufacturing Base and Competitors
Table 268. Huawei Technologies Major Business
Table 269. Huawei Technologies AI Edge Inference Boxes Product and Services
Table 270. Huawei Technologies AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 271. Huawei Technologies Recent Developments/Updates
Table 272. Huawei Technologies Competitive Strengths & Weaknesses
Table 273. Tencent Basic Information, Manufacturing Base and Competitors
Table 274. Tencent Major Business
Table 275. Tencent AI Edge Inference Boxes Product and Services
Table 276. Tencent AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 277. Tencent Recent Developments/Updates
Table 278. Tencent Competitive Strengths & Weaknesses
Table 279. Beijing SOPHGO Basic Information, Manufacturing Base and Competitors
Table 280. Beijing SOPHGO Major Business
Table 281. Beijing SOPHGO AI Edge Inference Boxes Product and Services
Table 282. Beijing SOPHGO AI Edge Inference Boxes Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 283. Beijing SOPHGO Recent Developments/Updates

Table 284. Beijing SOPHGO Competitive Strengths & Weaknesses

Table 285. Global Key Players of AI Edge Inference Boxes Upstream (Raw Materials)

Table 286. Global AI Edge Inference Boxes Typical Customers

Table 287. AI Edge Inference Boxes Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. AI Edge Inference Boxes Picture
- Figure 2. World AI Edge Inference Boxes Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World AI Edge Inference Boxes Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 5. World AI Edge Inference Boxes Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World AI Edge Inference Boxes Production Value Market Share by Region (2021-2032)
- Figure 7. World AI Edge Inference Boxes Production Market Share by Region (2021-2032)
- Figure 8. North America AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 9. Europe AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 10. China AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 11. Japan AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 12. China Taiwan AI Edge Inference Boxes Production (2021-2032) & (K Units)
- Figure 13. AI Edge Inference Boxes Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 16. World AI Edge Inference Boxes Consumption Market Share by Region (2021-2032)
- Figure 17. United States AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 18. China AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 19. Europe AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 20. Japan AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 21. South Korea AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 22. ASEAN AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 23. India AI Edge Inference Boxes Consumption (2021-2032) & (K Units)
- Figure 24. Producer Shipments of AI Edge Inference Boxes by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for AI Edge Inference Boxes Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for AI Edge Inference Boxes Markets in 2025

Figure 27. United States VS China: AI Edge Inference Boxes Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI Edge Inference Boxes Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: AI Edge Inference Boxes Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers AI Edge Inference Boxes Production Market Share 2025

Figure 31. China Based Manufacturers AI Edge Inference Boxes Production Market Share 2025

Figure 32. Rest of World Based Manufacturers AI Edge Inference Boxes Production Market Share 2025

Figure 33. World AI Edge Inference Boxes Production Value by Computing Power, (USD Million), 2021 & 2025 & 2032

Figure 34. World AI Edge Inference Boxes Production Value Market Share by Computing Power in 2025

Figure 35. Below 20 TOPS

Figure 36. 20-100 TOPS

Figure 37. Above 100TOPS

Figure 38. World AI Edge Inference Boxes Production Market Share by Computing Power (2021-2032)

Figure 39. World AI Edge Inference Boxes Production Value Market Share by Computing Power (2021-2032)

Figure 40. World AI Edge Inference Boxes Average Price by Computing Power (2021-2032) & (US\$/Unit)

Figure 41. World AI Edge Inference Boxes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 42. World AI Edge Inference Boxes Production Value Market Share by Type in 2025

Figure 43. CPU-based

Figure 44. GPU-based

Figure 45. NPU/TPU/VPU-based

Figure 46. FPGA-based

Figure 47. Others

Figure 48. World AI Edge Inference Boxes Production Market Share by Type (2021-2032)

Figure 49. World AI Edge Inference Boxes Production Value Market Share by Type (2021-2032)

Figure 50. World AI Edge Inference Boxes Average Price by Type (2021-2032) &

(US\$/Unit)

Figure 51. World AI Edge Inference Boxes Production Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 52. World AI Edge Inference Boxes Production Value Market Share by Physical Form in 2025

Figure 53. Standard Commercial Box

Figure 54. Micro AI Module

Figure 55. World AI Edge Inference Boxes Production Market Share by Physical Form (2021-2032)

Figure 56. World AI Edge Inference Boxes Production Value Market Share by Physical Form (2021-2032)

Figure 57. World AI Edge Inference Boxes Average Price by Physical Form (2021-2032) & (US\$/Unit)

Figure 58. World AI Edge Inference Boxes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World AI Edge Inference Boxes Production Value Market Share by Application in 2025

Figure 60. Smart Manufacturing

Figure 61. Smart City

Figure 62. Retail Industry

Figure 63. Smart Mining

Figure 64. Autonomous Driving

Figure 65. Others

Figure 66. World AI Edge Inference Boxes Production Market Share by Application (2021-2032)

Figure 67. World AI Edge Inference Boxes Production Value Market Share by Application (2021-2032)

Figure 68. World AI Edge Inference Boxes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 69. AI Edge Inference Boxes Industry Chain

Figure 70. AI Edge Inference Boxes Procurement Model

Figure 71. AI Edge Inference Boxes Sales Model

Figure 72. AI Edge Inference Boxes Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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