

Global AI Edge Inference Boxes Market Growth 2026-2032

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Abstracts

The global AI Edge Inference Boxes market size is predicted to grow from US\$ 422 million in 2025 to US\$ 974 million in 2032; it is expected to grow at a CAGR of 13.1% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global AI Edge Inference Boxes 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 Inference Boxes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Edge Inference Boxes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Edge Inference Boxes 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 Inference Boxes.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Edge Inference Boxes 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 Inference Boxes market?

What factors are driving AI Edge Inference Boxes market growth, globally and by region?

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

How do AI Edge Inference Boxes market opportunities vary by end market size?

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global AI Edge Inference Boxes Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for AI Edge Inference Boxes by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for AI Edge Inference Boxes by Country/Region, 2021, 2025 & 2032
- 2.2 AI Edge Inference Boxes Segment by Computing Power
 - 2.2.1 Below 20 TOPS
 - 2.2.2 20-100 TOPS
 - 2.2.3 Above 100TOPS
 - 2.2.4 AI Edge Inference Boxes Sales by Computing Power
 - 2.2.4.1 Global AI Edge Inference Boxes Sales Market Share by Computing Power (2021-2026)
 - 2.2.4.2 Global AI Edge Inference Boxes Revenue and Market Share by Computing Power (2021-2026)
 - 2.2.4.3 Global AI Edge Inference Boxes Sale Price by Computing Power (2021-2026)
- 2.3 AI Edge Inference Boxes Segment by Type
 - 2.3.1 CPU-based
 - 2.3.2 GPU-based
 - 2.3.3 NPU/TPU/VPU-based
 - 2.3.4 FPGA-based
 - 2.3.5 Others
 - 2.3.6 AI Edge Inference Boxes Sales by Type
 - 2.3.6.1 Global AI Edge Inference Boxes Sales Market Share by Type (2021-2026)

2.3.6.2 Global AI Edge Inference Boxes Revenue and Market Share by Type (2021-2026)

2.3.6.3 Global AI Edge Inference Boxes Sale Price by Type (2021-2026)

2.4 AI Edge Inference Boxes Segment by Physical Form

2.4.1 Standard Commercial Box

2.4.2 Micro AI Module

2.4.3 AI Edge Inference Boxes Sales by Physical Form

2.4.3.1 Global AI Edge Inference Boxes Sales Market Share by Physical Form (2021-2026)

2.4.3.2 Global AI Edge Inference Boxes Revenue and Market Share by Physical Form (2021-2026)

2.4.3.3 Global AI Edge Inference Boxes Sale Price by Physical Form (2021-2026)

2.5 AI Edge Inference Boxes Segment by Application

2.5.1 Smart Manufacturing

2.5.2 Smart City

2.5.3 Retail Industry

2.5.4 Smart Mining

2.5.5 Autonomous Driving

2.5.6 Others

2.5.7 AI Edge Inference Boxes Sales by Application

2.5.7.1 Global AI Edge Inference Boxes Sale Market Share by Application (2021-2026)

2.5.7.2 Global AI Edge Inference Boxes Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global AI Edge Inference Boxes Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global AI Edge Inference Boxes Breakdown Data by Company

3.1.1 Global AI Edge Inference Boxes Annual Sales by Company (2021-2026)

3.1.2 Global AI Edge Inference Boxes Sales Market Share by Company (2021-2026)

3.2 Global AI Edge Inference Boxes Annual Revenue by Company (2021-2026)

3.2.1 Global AI Edge Inference Boxes Revenue by Company (2021-2026)

3.2.2 Global AI Edge Inference Boxes Revenue Market Share by Company (2021-2026)

3.3 Global AI Edge Inference Boxes Sale Price by Company

3.4 Key Manufacturers AI Edge Inference Boxes Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers AI Edge Inference Boxes Product Location Distribution

- 3.4.2 Players AI Edge Inference Boxes Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR AI EDGE INFERENCE BOXES BY GEOGRAPHIC REGION

- 4.1 World Historic AI Edge Inference Boxes Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global AI Edge Inference Boxes Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global AI Edge Inference Boxes Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic AI Edge Inference Boxes Market Size by Country/Region (2021-2026)
 - 4.2.1 Global AI Edge Inference Boxes Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global AI Edge Inference Boxes Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas AI Edge Inference Boxes Sales Growth
- 4.4 APAC AI Edge Inference Boxes Sales Growth
- 4.5 Europe AI Edge Inference Boxes Sales Growth
- 4.6 Middle East & Africa AI Edge Inference Boxes Sales Growth

5 AMERICAS

- 5.1 Americas AI Edge Inference Boxes Sales by Country
 - 5.1.1 Americas AI Edge Inference Boxes Sales by Country (2021-2026)
 - 5.1.2 Americas AI Edge Inference Boxes Revenue by Country (2021-2026)
- 5.2 Americas AI Edge Inference Boxes Sales by Computing Power (2021-2026)
- 5.3 Americas AI Edge Inference Boxes Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC AI Edge Inference Boxes Sales by Region

6.1.1 APAC AI Edge Inference Boxes Sales by Region (2021-2026)

6.1.2 APAC AI Edge Inference Boxes Revenue by Region (2021-2026)

6.2 APAC AI Edge Inference Boxes Sales by Computing Power (2021-2026)

6.3 APAC AI Edge Inference Boxes Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe AI Edge Inference Boxes by Country

7.1.1 Europe AI Edge Inference Boxes Sales by Country (2021-2026)

7.1.2 Europe AI Edge Inference Boxes Revenue by Country (2021-2026)

7.2 Europe AI Edge Inference Boxes Sales by Computing Power (2021-2026)

7.3 Europe AI Edge Inference Boxes Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa AI Edge Inference Boxes by Country

8.1.1 Middle East & Africa AI Edge Inference Boxes Sales by Country (2021-2026)

8.1.2 Middle East & Africa AI Edge Inference Boxes Revenue by Country (2021-2026)

8.2 Middle East & Africa AI Edge Inference Boxes Sales by Computing Power (2021-2026)

8.3 Middle East & Africa AI Edge Inference Boxes Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of AI Edge Inference Boxes

10.3 Manufacturing Process Analysis of AI Edge Inference Boxes

10.4 Industry Chain Structure of AI Edge Inference Boxes

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 AI Edge Inference Boxes Distributors

11.3 AI Edge Inference Boxes Customer

12 WORLD FORECAST REVIEW FOR AI EDGE INFERENCE BOXES BY GEOGRAPHIC REGION

12.1 Global AI Edge Inference Boxes Market Size Forecast by Region

12.1.1 Global AI Edge Inference Boxes Forecast by Region (2027-2032)

12.1.2 Global AI Edge Inference Boxes Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global AI Edge Inference Boxes Forecast by Computing Power (2027-2032)

12.7 Global AI Edge Inference Boxes Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Advantech

13.1.1 Advantech Company Information

13.1.2 Advantech AI Edge Inference Boxes Product Portfolios and Specifications

13.1.3 Advantech AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Advantech Main Business Overview

13.1.5 Advantech Latest Developments

13.2 Mistral Solutions

13.2.1 Mistral Solutions Company Information

13.2.2 Mistral Solutions AI Edge Inference Boxes Product Portfolios and Specifications

13.2.3 Mistral Solutions AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Mistral Solutions Main Business Overview

13.2.5 Mistral Solutions Latest Developments

13.3 Forecr

13.3.1 Forecr Company Information

13.3.2 Forecr AI Edge Inference Boxes Product Portfolios and Specifications

13.3.3 Forecr AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Forecr Main Business Overview

13.3.5 Forecr Latest Developments

13.4 Jwipc Technology

13.4.1 Jwipc Technology Company Information

13.4.2 Jwipc Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.4.3 Jwipc Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Jwipc Technology Main Business Overview

13.4.5 Jwipc Technology Latest Developments

13.5 Guangzhou STONKAM

13.5.1 Guangzhou STONKAM Company Information

13.5.2 Guangzhou STONKAM AI Edge Inference Boxes Product Portfolios and Specifications

13.5.3 Guangzhou STONKAM AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Guangzhou STONKAM Main Business Overview

13.5.5 Guangzhou STONKAM Latest Developments

13.6 Shenzhen Geniatech

13.6.1 Shenzhen Geniatech Company Information

13.6.2 Shenzhen Geniatech AI Edge Inference Boxes Product Portfolios and Specifications

13.6.3 Shenzhen Geniatech AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Shenzhen Geniatech Main Business Overview

13.6.5 Shenzhen Geniatech Latest Developments

13.7 Inventec

13.7.1 Inventec Company Information

13.7.2 Inventec AI Edge Inference Boxes Product Portfolios and Specifications

13.7.3 Inventec AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Inventec Main Business Overview

13.7.5 Inventec Latest Developments

13.8 Shenzhen CoreRain

13.8.1 Shenzhen CoreRain Company Information

13.8.2 Shenzhen CoreRain AI Edge Inference Boxes Product Portfolios and Specifications

13.8.3 Shenzhen CoreRain AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Shenzhen CoreRain Main Business Overview

13.8.5 Shenzhen CoreRain Latest Developments

13.9 Sichuan Wanwu Zongheng Technology

13.9.1 Sichuan Wanwu Zongheng Technology Company Information

13.9.2 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.9.3 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Sichuan Wanwu Zongheng Technology Main Business Overview

13.9.5 Sichuan Wanwu Zongheng Technology Latest Developments

13.10 Guangzhou Embedded Machine Technology

13.10.1 Guangzhou Embedded Machine Technology Company Information

13.10.2 Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.10.3 Guangzhou Embedded Machine Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Guangzhou Embedded Machine Technology Main Business Overview

13.10.5 Guangzhou Embedded Machine Technology Latest Developments

13.11 Shenzhen King Histrong

13.11.1 Shenzhen King Histrong Company Information

13.11.2 Shenzhen King Histrong AI Edge Inference Boxes Product Portfolios and Specifications

13.11.3 Shenzhen King Histrong AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shenzhen King Histrong Main Business Overview

13.11.5 Shenzhen King Histrong Latest Developments

13.12 Thundercomm

13.12.1 Thundercomm Company Information

13.12.2 Thundercomm AI Edge Inference Boxes Product Portfolios and Specifications

13.12.3 Thundercomm AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Thundercomm Main Business Overview

13.12.5 Thundercomm Latest Developments

13.13 Shenzhen Smart Device Technology

13.13.1 Shenzhen Smart Device Technology Company Information

13.13.2 Shenzhen Smart Device Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.13.3 Shenzhen Smart Device Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Shenzhen Smart Device Technology Main Business Overview

13.13.5 Shenzhen Smart Device Technology Latest Developments

13.14 Amnimo Inc

13.14.1 Amnimo Inc Company Information

13.14.2 Amnimo Inc AI Edge Inference Boxes Product Portfolios and Specifications

13.14.3 Amnimo Inc AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Amnimo Inc Main Business Overview

13.14.5 Amnimo Inc Latest Developments

13.15 ADLINK Technology

13.15.1 ADLINK Technology Company Information

13.15.2 ADLINK Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.15.3 ADLINK Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 ADLINK Technology Main Business Overview

13.15.5 ADLINK Technology Latest Developments

13.16 Eurotech

13.16.1 Eurotech Company Information

13.16.2 Eurotech AI Edge Inference Boxes Product Portfolios and Specifications

13.16.3 Eurotech AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Eurotech Main Business Overview

13.16.5 Eurotech Latest Developments

13.17 AAEON Technology

13.17.1 AAEON Technology Company Information

13.17.2 AAEON Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.17.3 AAEON Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 AAEON Technology Main Business Overview

13.17.5 AAEON Technology Latest Developments

13.18 Shenzhen Micagent

13.18.1 Shenzhen Micagent Company Information

13.18.2 Shenzhen Micagent AI Edge Inference Boxes Product Portfolios and Specifications

13.18.3 Shenzhen Micagent AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Shenzhen Micagent Main Business Overview

13.18.5 Shenzhen Micagent Latest Developments

13.19 Changzhou Haitu Electronic

13.19.1 Changzhou Haitu Electronic Company Information

13.19.2 Changzhou Haitu Electronic AI Edge Inference Boxes Product Portfolios and Specifications

13.19.3 Changzhou Haitu Electronic AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Changzhou Haitu Electronic Main Business Overview

13.19.5 Changzhou Haitu Electronic Latest Developments

13.20 Ingrasys

13.20.1 Ingrasys Company Information

13.20.2 Ingrasys AI Edge Inference Boxes Product Portfolios and Specifications

13.20.3 Ingrasys AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Ingrasys Main Business Overview

13.20.5 Ingrasys Latest Developments

13.21 EDGEMATRIX

13.21.1 EDGEMATRIX Company Information

13.21.2 EDGEMATRIX AI Edge Inference Boxes Product Portfolios and Specifications

13.21.3 EDGEMATRIX AI Edge Inference Boxes Sales, Revenue, Price and Gross

Margin (2021-2026)

13.21.4 EDGEMATRIX Main Business Overview

13.21.5 EDGEMATRIX Latest Developments

13.22 ARBOR

13.22.1 ARBOR Company Information

13.22.2 ARBOR AI Edge Inference Boxes Product Portfolios and Specifications

13.22.3 ARBOR AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin

(2021-2026)

13.22.4 ARBOR Main Business Overview

13.22.5 ARBOR Latest Developments

13.23 Hangzhou Yanzhi Technology

13.23.1 Hangzhou Yanzhi Technology Company Information

13.23.2 Hangzhou Yanzhi Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.23.3 Hangzhou Yanzhi Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Hangzhou Yanzhi Technology Main Business Overview

13.23.5 Hangzhou Yanzhi Technology Latest Developments

13.24 Twowin Technology

13.24.1 Twowin Technology Company Information

13.24.2 Twowin Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.24.3 Twowin Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Twowin Technology Main Business Overview

13.24.5 Twowin Technology Latest Developments

13.25 Newland Digital Technology

13.25.1 Newland Digital Technology Company Information

13.25.2 Newland Digital Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.25.3 Newland Digital Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 Newland Digital Technology Main Business Overview

13.25.5 Newland Digital Technology Latest Developments

13.26 Beijing NexGemo Technology

13.26.1 Beijing NexGemo Technology Company Information

13.26.2 Beijing NexGemo Technology AI Edge Inference Boxes Product Portfolios and Specifications

13.26.3 Beijing NexGemo Technology AI Edge Inference Boxes Sales, Revenue, Price

and Gross Margin (2021-2026)

13.26.4 Beijing NexGemo Technology Main Business Overview

13.26.5 Beijing NexGemo Technology Latest Developments

13.27 Alibaba Cloud

13.27.1 Alibaba Cloud Company Information

13.27.2 Alibaba Cloud AI Edge Inference Boxes Product Portfolios and Specifications

13.27.3 Alibaba Cloud AI Edge Inference Boxes Sales, Revenue, Price and Gross

Margin (2021-2026)

13.27.4 Alibaba Cloud Main Business Overview

13.27.5 Alibaba Cloud Latest Developments

13.28 PlanetSpark

13.28.1 PlanetSpark Company Information

13.28.2 PlanetSpark AI Edge Inference Boxes Product Portfolios and Specifications

13.28.3 PlanetSpark AI Edge Inference Boxes Sales, Revenue, Price and Gross

Margin (2021-2026)

13.28.4 PlanetSpark Main Business Overview

13.28.5 PlanetSpark Latest Developments

13.29 Lenovo

13.29.1 Lenovo Company Information

13.29.2 Lenovo AI Edge Inference Boxes Product Portfolios and Specifications

13.29.3 Lenovo AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin

(2021-2026)

13.29.4 Lenovo Main Business Overview

13.29.5 Lenovo Latest Developments

13.30 Baidu

13.30.1 Baidu Company Information

13.30.2 Baidu AI Edge Inference Boxes Product Portfolios and Specifications

13.30.3 Baidu AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin

(2021-2026)

13.30.4 Baidu Main Business Overview

13.30.5 Baidu Latest Developments

13.31 HIKVISION

13.31.1 HIKVISION Company Information

13.31.2 HIKVISION AI Edge Inference Boxes Product Portfolios and Specifications

13.31.3 HIKVISION AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin

(2021-2026)

13.31.4 HIKVISION Main Business Overview

13.31.5 HIKVISION Latest Developments

13.32 Dahua Technology

- 13.32.1 Dahua Technology Company Information
- 13.32.2 Dahua Technology AI Edge Inference Boxes Product Portfolios and Specifications
- 13.32.3 Dahua Technology AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.32.4 Dahua Technology Main Business Overview
- 13.32.5 Dahua Technology Latest Developments
- 13.33 Huawei Technologies
 - 13.33.1 Huawei Technologies Company Information
 - 13.33.2 Huawei Technologies AI Edge Inference Boxes Product Portfolios and Specifications
 - 13.33.3 Huawei Technologies AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.33.4 Huawei Technologies Main Business Overview
 - 13.33.5 Huawei Technologies Latest Developments
- 13.34 Tencent
 - 13.34.1 Tencent Company Information
 - 13.34.2 Tencent AI Edge Inference Boxes Product Portfolios and Specifications
 - 13.34.3 Tencent AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.34.4 Tencent Main Business Overview
 - 13.34.5 Tencent Latest Developments
- 13.35 Beijing SOPHGO
 - 13.35.1 Beijing SOPHGO Company Information
 - 13.35.2 Beijing SOPHGO AI Edge Inference Boxes Product Portfolios and Specifications
 - 13.35.3 Beijing SOPHGO AI Edge Inference Boxes Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.35.4 Beijing SOPHGO Main Business Overview
 - 13.35.5 Beijing SOPHGO Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. AI Edge Inference Boxes Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. AI Edge Inference Boxes Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Below 20 TOPS

Table 4. Major Players of 20-100 TOPS

Table 5. Major Players of Above 100TOPS

Table 6. Global AI Edge Inference Boxes Sales by Computing Power (2021-2026) & (K Units)

Table 7. Global AI Edge Inference Boxes Sales Market Share by Computing Power (2021-2026)

Table 8. Global AI Edge Inference Boxes Revenue by Computing Power (2021-2026) & (\$ million)

Table 9. Global AI Edge Inference Boxes Revenue Market Share by Computing Power (2021-2026)

Table 10. Global AI Edge Inference Boxes Sale Price by Computing Power (2021-2026) & (US\$/Unit)

Table 11. Major Players of CPU-based

Table 12. Major Players of GPU-based

Table 13. Major Players of NPU/TPU/VPU-based

Table 14. Major Players of FPGA-based

Table 15. Major Players of Others

Table 16. Global AI Edge Inference Boxes Sales by Type (2021-2026) & (K Units)

Table 17. Global AI Edge Inference Boxes Sales Market Share by Type (2021-2026)

Table 18. Global AI Edge Inference Boxes Revenue by Type (2021-2026) & (\$ million)

Table 19. Global AI Edge Inference Boxes Revenue Market Share by Type (2021-2026)

Table 20. Global AI Edge Inference Boxes Sale Price by Type (2021-2026) & (US\$/Unit)

Table 21. Major Players of Standard Commercial Box

Table 22. Major Players of Micro AI Module

Table 23. Global AI Edge Inference Boxes Sales by Physical Form (2021-2026) & (K Units)

Table 24. Global AI Edge Inference Boxes Sales Market Share by Physical Form (2021-2026)

Table 25. Global AI Edge Inference Boxes Revenue by Physical Form (2021-2026) & (\$ million)

Table 26. Global AI Edge Inference Boxes Revenue Market Share by Physical Form (2021-2026)

Table 27. Global AI Edge Inference Boxes Sale Price by Physical Form (2021-2026) & (US\$/Unit)

Table 28. Global AI Edge Inference Boxes Sale by Application (2021-2026) & (K Units)

Table 29. Global AI Edge Inference Boxes Sale Market Share by Application (2021-2026)

Table 30. Global AI Edge Inference Boxes Revenue by Application (2021-2026) & (\$ million)

Table 31. Global AI Edge Inference Boxes Revenue Market Share by Application (2021-2026)

Table 32. Global AI Edge Inference Boxes Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global AI Edge Inference Boxes Sales by Company (2021-2026) & (K Units)

Table 34. Global AI Edge Inference Boxes Sales Market Share by Company (2021-2026)

Table 35. Global AI Edge Inference Boxes Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global AI Edge Inference Boxes Revenue Market Share by Company (2021-2026)

Table 37. Global AI Edge Inference Boxes Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers AI Edge Inference Boxes Producing Area Distribution and Sales Area

Table 39. Players AI Edge Inference Boxes Products Offered

Table 40. AI Edge Inference Boxes Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global AI Edge Inference Boxes Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global AI Edge Inference Boxes Sales Market Share Geographic Region (2021-2026)

Table 45. Global AI Edge Inference Boxes Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global AI Edge Inference Boxes Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global AI Edge Inference Boxes Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global AI Edge Inference Boxes Sales Market Share by Country/Region (2021-2026)

Table 49. Global AI Edge Inference Boxes Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global AI Edge Inference Boxes Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas AI Edge Inference Boxes Sales by Country (2021-2026) & (K Units)

Table 52. Americas AI Edge Inference Boxes Sales Market Share by Country (2021-2026)

Table 53. Americas AI Edge Inference Boxes Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas AI Edge Inference Boxes Sales by Computing Power (2021-2026) & (K Units)

Table 55. Americas AI Edge Inference Boxes Sales by Application (2021-2026) & (K Units)

Table 56. APAC AI Edge Inference Boxes Sales by Region (2021-2026) & (K Units)

Table 57. APAC AI Edge Inference Boxes Sales Market Share by Region (2021-2026)

Table 58. APAC AI Edge Inference Boxes Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC AI Edge Inference Boxes Sales by Computing Power (2021-2026) & (K Units)

Table 60. APAC AI Edge Inference Boxes Sales by Application (2021-2026) & (K Units)

Table 61. Europe AI Edge Inference Boxes Sales by Country (2021-2026) & (K Units)

Table 62. Europe AI Edge Inference Boxes Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe AI Edge Inference Boxes Sales by Computing Power (2021-2026) & (K Units)

Table 64. Europe AI Edge Inference Boxes Sales by Application (2021-2026) & (K Units)

Table 65. Middle East & Africa AI Edge Inference Boxes Sales by Country (2021-2026) & (K Units)

Table 66. Middle East & Africa AI Edge Inference Boxes Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa AI Edge Inference Boxes Sales by Computing Power (2021-2026) & (K Units)

Table 68. Middle East & Africa AI Edge Inference Boxes Sales by Application (2021-2026) & (K Units)

Table 69. Key Market Drivers & Growth Opportunities of AI Edge Inference Boxes

Table 70. Key Market Challenges & Risks of AI Edge Inference Boxes

Table 71. Key Industry Trends of AI Edge Inference Boxes
Table 72. AI Edge Inference Boxes Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. AI Edge Inference Boxes Distributors List
Table 75. AI Edge Inference Boxes Customer List
Table 76. Global AI Edge Inference Boxes Sales Forecast by Region (2027-2032) & (K Units)
Table 77. Global AI Edge Inference Boxes Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 78. Americas AI Edge Inference Boxes Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Americas AI Edge Inference Boxes Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 80. APAC AI Edge Inference Boxes Sales Forecast by Region (2027-2032) & (K Units)
Table 81. APAC AI Edge Inference Boxes Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 82. Europe AI Edge Inference Boxes Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Europe AI Edge Inference Boxes Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Middle East & Africa AI Edge Inference Boxes Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Middle East & Africa AI Edge Inference Boxes Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Global AI Edge Inference Boxes Sales Forecast by Computing Power (2027-2032) & (K Units)
Table 87. Global AI Edge Inference Boxes Revenue Forecast by Computing Power (2027-2032) & (\$ millions)
Table 88. Global AI Edge Inference Boxes Sales Forecast by Application (2027-2032) & (K Units)
Table 89. Global AI Edge Inference Boxes Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 90. Advantech Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 91. Advantech AI Edge Inference Boxes Product Portfolios and Specifications
Table 92. Advantech AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 93. Advantech Main Business

Table 94. Advantech Latest Developments
Table 95. Mistral Solutions Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 96. Mistral Solutions AI Edge Inference Boxes Product Portfolios and Specifications
Table 97. Mistral Solutions AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 98. Mistral Solutions Main Business
Table 99. Mistral Solutions Latest Developments
Table 100. Forecr Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 101. Forecr AI Edge Inference Boxes Product Portfolios and Specifications
Table 102. Forecr AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 103. Forecr Main Business
Table 104. Forecr Latest Developments
Table 105. Jwipc Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 106. Jwipc Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 107. Jwipc Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 108. Jwipc Technology Main Business
Table 109. Jwipc Technology Latest Developments
Table 110. Guangzhou STONKAM Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 111. Guangzhou STONKAM AI Edge Inference Boxes Product Portfolios and Specifications
Table 112. Guangzhou STONKAM AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 113. Guangzhou STONKAM Main Business
Table 114. Guangzhou STONKAM Latest Developments
Table 115. Shenzhen Geniatech Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 116. Shenzhen Geniatech AI Edge Inference Boxes Product Portfolios and Specifications
Table 117. Shenzhen Geniatech AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 118. Shenzhen Geniatech Main Business

Table 119. Shenzhen Geniatech Latest Developments
Table 120. Inventec Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 121. Inventec AI Edge Inference Boxes Product Portfolios and Specifications
Table 122. Inventec AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 123. Inventec Main Business
Table 124. Inventec Latest Developments
Table 125. Shenzhen CoreRain Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 126. Shenzhen CoreRain AI Edge Inference Boxes Product Portfolios and Specifications
Table 127. Shenzhen CoreRain AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 128. Shenzhen CoreRain Main Business
Table 129. Shenzhen CoreRain Latest Developments
Table 130. Sichuan Wanwu Zongheng Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 131. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 132. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 133. Sichuan Wanwu Zongheng Technology Main Business
Table 134. Sichuan Wanwu Zongheng Technology Latest Developments
Table 135. Guangzhou Embedded Machine Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 136. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 137. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 138. Guangzhou Embedded Machine Technology Main Business
Table 139. Guangzhou Embedded Machine Technology Latest Developments
Table 140. Shenzhen King Histrong Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 141. Shenzhen King Histrong AI Edge Inference Boxes Product Portfolios and Specifications
Table 142. Shenzhen King Histrong AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 143. Shenzhen King Histrong Main Business

Table 144. Shenzhen King Histrong Latest Developments

Table 145. Thundercomm Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 146. Thundercomm AI Edge Inference Boxes Product Portfolios and Specifications

Table 147. Thundercomm AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Thundercomm Main Business

Table 149. Thundercomm Latest Developments

Table 150. Shenzhen Smart Device Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 151. Shenzhen Smart Device Technology AI Edge Inference Boxes Product Portfolios and Specifications

Table 152. Shenzhen Smart Device Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Shenzhen Smart Device Technology Main Business

Table 154. Shenzhen Smart Device Technology Latest Developments

Table 155. Amnimo Inc Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 156. Amnimo Inc AI Edge Inference Boxes Product Portfolios and Specifications

Table 157. Amnimo Inc AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Amnimo Inc Main Business

Table 159. Amnimo Inc Latest Developments

Table 160. ADLINK Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 161. ADLINK Technology AI Edge Inference Boxes Product Portfolios and Specifications

Table 162. ADLINK Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 163. ADLINK Technology Main Business

Table 164. ADLINK Technology Latest Developments

Table 165. Eurotech Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 166. Eurotech AI Edge Inference Boxes Product Portfolios and Specifications

Table 167. Eurotech AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 168. Eurotech Main Business

Table 169. Eurotech Latest Developments

Table 170. AAEON Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 171. AAEON Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 172. AAEON Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 173. AAEON Technology Main Business
Table 174. AAEON Technology Latest Developments
Table 175. Shenzhen Micagent Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 176. Shenzhen Micagent AI Edge Inference Boxes Product Portfolios and Specifications
Table 177. Shenzhen Micagent AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 178. Shenzhen Micagent Main Business
Table 179. Shenzhen Micagent Latest Developments
Table 180. Changzhou Haitu Electronic Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 181. Changzhou Haitu Electronic AI Edge Inference Boxes Product Portfolios and Specifications
Table 182. Changzhou Haitu Electronic AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 183. Changzhou Haitu Electronic Main Business
Table 184. Changzhou Haitu Electronic Latest Developments
Table 185. Ingrasys Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 186. Ingrasys AI Edge Inference Boxes Product Portfolios and Specifications
Table 187. Ingrasys AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 188. Ingrasys Main Business
Table 189. Ingrasys Latest Developments
Table 190. EDGEMATRIX Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 191. EDGEMATRIX AI Edge Inference Boxes Product Portfolios and Specifications
Table 192. EDGEMATRIX AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 193. EDGEMATRIX Main Business
Table 194. EDGEMATRIX Latest Developments

Table 195. ARBOR Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 196. ARBOR AI Edge Inference Boxes Product Portfolios and Specifications
Table 197. ARBOR AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 198. ARBOR Main Business
Table 199. ARBOR Latest Developments
Table 200. Hangzhou Yanzhi Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 201. Hangzhou Yanzhi Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 202. Hangzhou Yanzhi Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 203. Hangzhou Yanzhi Technology Main Business
Table 204. Hangzhou Yanzhi Technology Latest Developments
Table 205. Twowin Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 206. Twowin Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 207. Twowin Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 208. Twowin Technology Main Business
Table 209. Twowin Technology Latest Developments
Table 210. Newland Digital Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 211. Newland Digital Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 212. Newland Digital Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 213. Newland Digital Technology Main Business
Table 214. Newland Digital Technology Latest Developments
Table 215. Beijing NexGemo Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors
Table 216. Beijing NexGemo Technology AI Edge Inference Boxes Product Portfolios and Specifications
Table 217. Beijing NexGemo Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 218. Beijing NexGemo Technology Main Business
Table 219. Beijing NexGemo Technology Latest Developments

Table 220. Alibaba Cloud Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 221. Alibaba Cloud AI Edge Inference Boxes Product Portfolios and Specifications

Table 222. Alibaba Cloud AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 223. Alibaba Cloud Main Business

Table 224. Alibaba Cloud Latest Developments

Table 225. PlanetSpark Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 226. PlanetSpark AI Edge Inference Boxes Product Portfolios and Specifications

Table 227. PlanetSpark AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 228. PlanetSpark Main Business

Table 229. PlanetSpark Latest Developments

Table 230. Lenovo Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 231. Lenovo AI Edge Inference Boxes Product Portfolios and Specifications

Table 232. Lenovo AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 233. Lenovo Main Business

Table 234. Lenovo Latest Developments

Table 235. Baidu Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 236. Baidu AI Edge Inference Boxes Product Portfolios and Specifications

Table 237. Baidu AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 238. Baidu Main Business

Table 239. Baidu Latest Developments

Table 240. HIKVISION Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 241. HIKVISION AI Edge Inference Boxes Product Portfolios and Specifications

Table 242. HIKVISION AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 243. HIKVISION Main Business

Table 244. HIKVISION Latest Developments

Table 245. Dahua Technology Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 246. Dahua Technology AI Edge Inference Boxes Product Portfolios and

Specifications

Table 247. Dahua Technology AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 248. Dahua Technology Main Business

Table 249. Dahua Technology Latest Developments

Table 250. Huawei Technologies Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 251. Huawei Technologies AI Edge Inference Boxes Product Portfolios and Specifications

Table 252. Huawei Technologies AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 253. Huawei Technologies Main Business

Table 254. Huawei Technologies Latest Developments

Table 255. Tencent Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 256. Tencent AI Edge Inference Boxes Product Portfolios and Specifications

Table 257. Tencent AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 258. Tencent Main Business

Table 259. Tencent Latest Developments

Table 260. Beijing SOPHGO Basic Information, AI Edge Inference Boxes Manufacturing Base, Sales Area and Its Competitors

Table 261. Beijing SOPHGO AI Edge Inference Boxes Product Portfolios and Specifications

Table 262. Beijing SOPHGO AI Edge Inference Boxes Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 263. Beijing SOPHGO Main Business

Table 264. Beijing SOPHGO Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of AI Edge Inference Boxes
- Figure 2. AI Edge Inference Boxes Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global AI Edge Inference Boxes Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global AI Edge Inference Boxes Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. AI Edge Inference Boxes Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. AI Edge Inference Boxes Sales Market Share by Country/Region (2025)
- Figure 10. AI Edge Inference Boxes Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Below 20 TOPS
- Figure 12. Product Picture of 20-100 TOPS
- Figure 13. Product Picture of Above 100TOPS
- Figure 14. Global AI Edge Inference Boxes Sales Market Share by Computing Power in 2026
- Figure 15. Global AI Edge Inference Boxes Revenue Market Share by Computing Power (2021-2026)
- Figure 16. Product Picture of CPU-based
- Figure 17. Product Picture of GPU-based
- Figure 18. Product Picture of NPU/TPU/VPU-based
- Figure 19. Product Picture of FPGA-based
- Figure 20. Product Picture of Others
- Figure 21. Global AI Edge Inference Boxes Sales Market Share by Type in 2026
- Figure 22. Global AI Edge Inference Boxes Revenue Market Share by Type (2021-2026)
- Figure 23. Product Picture of Standard Commercial Box
- Figure 24. Product Picture of Micro AI Module
- Figure 25. Global AI Edge Inference Boxes Sales Market Share by Physical Form in 2026
- Figure 26. Global AI Edge Inference Boxes Revenue Market Share by Physical Form (2021-2026)
- Figure 27. AI Edge Inference Boxes Consumed in Smart Manufacturing
- Figure 28. Global AI Edge Inference Boxes Market: Smart Manufacturing (2021-2026) &

(K Units)

Figure 29. AI Edge Inference Boxes Consumed in Smart City

Figure 30. Global AI Edge Inference Boxes Market: Smart City (2021-2026) & (K Units)

Figure 31. AI Edge Inference Boxes Consumed in Retail Industry

Figure 32. Global AI Edge Inference Boxes Market: Retail Industry (2021-2026) & (K Units)

Figure 33. AI Edge Inference Boxes Consumed in Smart Mining

Figure 34. Global AI Edge Inference Boxes Market: Smart Mining (2021-2026) & (K Units)

Figure 35. AI Edge Inference Boxes Consumed in Autonomous Driving

Figure 36. Global AI Edge Inference Boxes Market: Autonomous Driving (2021-2026) & (K Units)

Figure 37. AI Edge Inference Boxes Consumed in Others

Figure 38. Global AI Edge Inference Boxes Market: Others (2021-2026) & (K Units)

Figure 39. Global AI Edge Inference Boxes Sale Market Share by Application (2025)

Figure 40. Global AI Edge Inference Boxes Revenue Market Share by Application in 2025

Figure 41. AI Edge Inference Boxes Sales by Company in 2025 (K Units)

Figure 42. Global AI Edge Inference Boxes Sales Market Share by Company in 2025

Figure 43. AI Edge Inference Boxes Revenue by Company in 2025 (\$ millions)

Figure 44. Global AI Edge Inference Boxes Revenue Market Share by Company in 2025

Figure 45. Global AI Edge Inference Boxes Sales Market Share by Geographic Region (2021-2026)

Figure 46. Global AI Edge Inference Boxes Revenue Market Share by Geographic Region in 2025

Figure 47. Americas AI Edge Inference Boxes Sales 2021-2026 (K Units)

Figure 48. Americas AI Edge Inference Boxes Revenue 2021-2026 (\$ millions)

Figure 49. APAC AI Edge Inference Boxes Sales 2021-2026 (K Units)

Figure 50. APAC AI Edge Inference Boxes Revenue 2021-2026 (\$ millions)

Figure 51. Europe AI Edge Inference Boxes Sales 2021-2026 (K Units)

Figure 52. Europe AI Edge Inference Boxes Revenue 2021-2026 (\$ millions)

Figure 53. Middle East & Africa AI Edge Inference Boxes Sales 2021-2026 (K Units)

Figure 54. Middle East & Africa AI Edge Inference Boxes Revenue 2021-2026 (\$ millions)

Figure 55. Americas AI Edge Inference Boxes Sales Market Share by Country in 2025

Figure 56. Americas AI Edge Inference Boxes Revenue Market Share by Country (2021-2026)

Figure 57. Americas AI Edge Inference Boxes Sales Market Share by Computing Power

(2021-2026)

Figure 58. Americas AI Edge Inference Boxes Sales Market Share by Application (2021-2026)

Figure 59. United States AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 60. Canada AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 61. Mexico AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 62. Brazil AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 63. APAC AI Edge Inference Boxes Sales Market Share by Region in 2025

Figure 64. APAC AI Edge Inference Boxes Revenue Market Share by Region (2021-2026)

Figure 65. APAC AI Edge Inference Boxes Sales Market Share by Computing Power (2021-2026)

Figure 66. APAC AI Edge Inference Boxes Sales Market Share by Application (2021-2026)

Figure 67. China AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 68. Japan AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 69. South Korea AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 70. Southeast Asia AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 71. India AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 72. Australia AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 73. China Taiwan AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 74. Europe AI Edge Inference Boxes Sales Market Share by Country in 2025

Figure 75. Europe AI Edge Inference Boxes Revenue Market Share by Country (2021-2026)

Figure 76. Europe AI Edge Inference Boxes Sales Market Share by Computing Power (2021-2026)

Figure 77. Europe AI Edge Inference Boxes Sales Market Share by Application (2021-2026)

Figure 78. Germany AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 79. France AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 80. UK AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 81. Italy AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 82. Russia AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 83. Middle East & Africa AI Edge Inference Boxes Sales Market Share by Country (2021-2026)

Figure 84. Middle East & Africa AI Edge Inference Boxes Sales Market Share by Computing Power (2021-2026)

Figure 85. Middle East & Africa AI Edge Inference Boxes Sales Market Share by Application (2021-2026)

Figure 86. Egypt AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 87. South Africa AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 88. Israel AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 89. Turkey AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 90. GCC Countries AI Edge Inference Boxes Revenue Growth 2021-2026 (\$ millions)

Figure 91. Manufacturing Cost Structure Analysis of AI Edge Inference Boxes in 2026

Figure 92. Manufacturing Process Analysis of AI Edge Inference Boxes

Figure 93. Industry Chain Structure of AI Edge Inference Boxes

Figure 94. Channels of Distribution

Figure 95. Global AI Edge Inference Boxes Sales Market Forecast by Region (2027-2032)

Figure 96. Global AI Edge Inference Boxes Revenue Market Share Forecast by Region (2027-2032)

Figure 97. Global AI Edge Inference Boxes Sales Market Share Forecast by Computing Power (2027-2032)

Figure 98. Global AI Edge Inference Boxes Revenue Market Share Forecast by Computing Power (2027-2032)

Figure 99. Global AI Edge Inference Boxes Sales Market Share Forecast by Application (2027-2032)

Figure 100. Global AI Edge Inference Boxes Revenue Market Share Forecast by Application (2027-2032)

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