

Global AI Edge Inference Boxes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI Edge Inference Boxes market size was valued at US\$ 443 million in 2025 and is forecast to a readjusted size of US\$ 983 million by 2032 with a CAGR of 12.4% during review period.

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

Key Features:

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

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

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

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

The Primary Objectives in This Report Are:

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

To assess the growth potential for AI Edge Inference Boxes

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Edge Inference Boxes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Advantech, Mistral Solutions, Forecr, Jwipc Technology, Guangzhou STONKAM, Shenzhen Geniatech, Inventec, Shenzhen CoreRain, Sichuan Wanwu Zongheng Technology, Guangzhou Embedded Machine Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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

Market segment by Computing Power

Below 20 TOPS

20-100 TOPS

Above 100TOPS

Market segment by Type

CPU-based

GPU-based

NPU/TPU/VPU-based

FPGA-based

Others

Market segment by Physical Form

Standard Commercial Box

Micro AI Module

Market segment by Application

Smart Manufacturing

Smart City

Retail Industry

Smart Mining

Autonomous Driving

Others

Major players covered

Advantech

Mistral Solutions

Forecr

Jwipc Technology

Guangzhou STONKAM

Shenzhen Geniatech

Inventec

Shenzhen CoreRain

Sichuan Wanwu Zongheng Technology

Guangzhou Embedded Machine Technology

Shenzhen King Histrong

Thundercomm

Shenzhen Smart Device Technology

Amnimo Inc

ADLINK Technology

Eurotech

AAEON Technology

Shenzhen Micagent

Changzhou Haitu Electronic

Ingrasys

EDGEMATRIX

ARBOR

Hangzhou Yanzhi Technology

Twowin Technology

Newland Digital Technology

Beijing NexGemo Technology

Alibaba Cloud

PlanetSpark

Lenovo

Baidu

HIKVISION

Dahua Technology

Huawei Technologies

Tencent

Beijing SOPHGO

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

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

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

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

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

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Edge Inference Boxes.

Chapter 14 and 15, to describe AI Edge Inference Boxes sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Computing Power

1.3.1 Overview: Global AI Edge Inference Boxes Consumption Value by Computing Power: 2021 Versus 2025 Versus 2032

1.3.2 Below 20 TOPS

1.3.3 20-100 TOPS

1.3.4 Above 100TOPS

1.4 Market Analysis by Type

1.4.1 Overview: Global AI Edge Inference Boxes Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.4.2 CPU-based

1.4.3 GPU-based

1.4.4 NPU/TPU/VPU-based

1.4.5 FPGA-based

1.4.6 Others

1.5 Market Analysis by Physical Form

1.5.1 Overview: Global AI Edge Inference Boxes Consumption Value by Physical Form: 2021 Versus 2025 Versus 2032

1.5.2 Standard Commercial Box

1.5.3 Micro AI Module

1.6 Market Analysis by Application

1.6.1 Overview: Global AI Edge Inference Boxes Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Smart Manufacturing

1.6.3 Smart City

1.6.4 Retail Industry

1.6.5 Smart Mining

1.6.6 Autonomous Driving

1.6.7 Others

1.7 Global AI Edge Inference Boxes Market Size & Forecast

1.7.1 Global AI Edge Inference Boxes Consumption Value (2021 & 2025 & 2032)

1.7.2 Global AI Edge Inference Boxes Sales Quantity (2021-2032)

1.7.3 Global AI Edge Inference Boxes Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Advantech

2.1.1 Advantech Details

2.1.2 Advantech Major Business

2.1.3 Advantech AI Edge Inference Boxes Product and Services

2.1.4 Advantech AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Advantech Recent Developments/Updates

2.2 Mistral Solutions

2.2.1 Mistral Solutions Details

2.2.2 Mistral Solutions Major Business

2.2.3 Mistral Solutions AI Edge Inference Boxes Product and Services

2.2.4 Mistral Solutions AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Mistral Solutions Recent Developments/Updates

2.3 Forecr

2.3.1 Forecr Details

2.3.2 Forecr Major Business

2.3.3 Forecr AI Edge Inference Boxes Product and Services

2.3.4 Forecr AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Forecr Recent Developments/Updates

2.4 Jwipc Technology

2.4.1 Jwipc Technology Details

2.4.2 Jwipc Technology Major Business

2.4.3 Jwipc Technology AI Edge Inference Boxes Product and Services

2.4.4 Jwipc Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Jwipc Technology Recent Developments/Updates

2.5 Guangzhou STONKAM

2.5.1 Guangzhou STONKAM Details

2.5.2 Guangzhou STONKAM Major Business

2.5.3 Guangzhou STONKAM AI Edge Inference Boxes Product and Services

2.5.4 Guangzhou STONKAM AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Guangzhou STONKAM Recent Developments/Updates

2.6 Shenzhen Geniatech

2.6.1 Shenzhen Geniatech Details

- 2.6.2 Shenzhen Geniatech Major Business
- 2.6.3 Shenzhen Geniatech AI Edge Inference Boxes Product and Services
- 2.6.4 Shenzhen Geniatech AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Shenzhen Geniatech Recent Developments/Updates
- 2.7 Inventec
 - 2.7.1 Inventec Details
 - 2.7.2 Inventec Major Business
 - 2.7.3 Inventec AI Edge Inference Boxes Product and Services
 - 2.7.4 Inventec AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Inventec Recent Developments/Updates
- 2.8 Shenzhen CoreRain
 - 2.8.1 Shenzhen CoreRain Details
 - 2.8.2 Shenzhen CoreRain Major Business
 - 2.8.3 Shenzhen CoreRain AI Edge Inference Boxes Product and Services
 - 2.8.4 Shenzhen CoreRain AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Shenzhen CoreRain Recent Developments/Updates
- 2.9 Sichuan Wanwu Zongheng Technology
 - 2.9.1 Sichuan Wanwu Zongheng Technology Details
 - 2.9.2 Sichuan Wanwu Zongheng Technology Major Business
 - 2.9.3 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product and Services
 - 2.9.4 Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Sichuan Wanwu Zongheng Technology Recent Developments/Updates
- 2.10 Guangzhou Embedded Machine Technology
 - 2.10.1 Guangzhou Embedded Machine Technology Details
 - 2.10.2 Guangzhou Embedded Machine Technology Major Business
 - 2.10.3 Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product and Services
 - 2.10.4 Guangzhou Embedded Machine Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Guangzhou Embedded Machine Technology Recent Developments/Updates
- 2.11 Shenzhen King Histrong
 - 2.11.1 Shenzhen King Histrong Details
 - 2.11.2 Shenzhen King Histrong Major Business
 - 2.11.3 Shenzhen King Histrong AI Edge Inference Boxes Product and Services

2.11.4 Shenzhen King Histrong AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Shenzhen King Histrong Recent Developments/Updates

2.12 Thundercomm

2.12.1 Thundercomm Details

2.12.2 Thundercomm Major Business

2.12.3 Thundercomm AI Edge Inference Boxes Product and Services

2.12.4 Thundercomm AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Thundercomm Recent Developments/Updates

2.13 Shenzhen Smart Device Technology

2.13.1 Shenzhen Smart Device Technology Details

2.13.2 Shenzhen Smart Device Technology Major Business

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

2.13.4 Shenzhen Smart Device Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Shenzhen Smart Device Technology Recent Developments/Updates

2.14 Amnimo Inc

2.14.1 Amnimo Inc Details

2.14.2 Amnimo Inc Major Business

2.14.3 Amnimo Inc AI Edge Inference Boxes Product and Services

2.14.4 Amnimo Inc AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Amnimo Inc Recent Developments/Updates

2.15 ADLINK Technology

2.15.1 ADLINK Technology Details

2.15.2 ADLINK Technology Major Business

2.15.3 ADLINK Technology AI Edge Inference Boxes Product and Services

2.15.4 ADLINK Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 ADLINK Technology Recent Developments/Updates

2.16 Eurotech

2.16.1 Eurotech Details

2.16.2 Eurotech Major Business

2.16.3 Eurotech AI Edge Inference Boxes Product and Services

2.16.4 Eurotech AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Eurotech Recent Developments/Updates

2.17 AAEON Technology

2.17.1 AAEON Technology Details

2.17.2 AAEON Technology Major Business

2.17.3 AAEON Technology AI Edge Inference Boxes Product and Services

2.17.4 AAEON Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 AAEON Technology Recent Developments/Updates

2.18 Shenzhen Micagent

2.18.1 Shenzhen Micagent Details

2.18.2 Shenzhen Micagent Major Business

2.18.3 Shenzhen Micagent AI Edge Inference Boxes Product and Services

2.18.4 Shenzhen Micagent AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Shenzhen Micagent Recent Developments/Updates

2.19 Changzhou Haitu Electronic

2.19.1 Changzhou Haitu Electronic Details

2.19.2 Changzhou Haitu Electronic Major Business

2.19.3 Changzhou Haitu Electronic AI Edge Inference Boxes Product and Services

2.19.4 Changzhou Haitu Electronic AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 Changzhou Haitu Electronic Recent Developments/Updates

2.20 Ingrasys

2.20.1 Ingrasys Details

2.20.2 Ingrasys Major Business

2.20.3 Ingrasys AI Edge Inference Boxes Product and Services

2.20.4 Ingrasys AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 Ingrasys Recent Developments/Updates

2.21 EDGEMATRIX

2.21.1 EDGEMATRIX Details

2.21.2 EDGEMATRIX Major Business

2.21.3 EDGEMATRIX AI Edge Inference Boxes Product and Services

2.21.4 EDGEMATRIX AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 EDGEMATRIX Recent Developments/Updates

2.22 ARBOR

2.22.1 ARBOR Details

2.22.2 ARBOR Major Business

2.22.3 ARBOR AI Edge Inference Boxes Product and Services

2.22.4 ARBOR AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.22.5 ARBOR Recent Developments/Updates

2.23 Hangzhou Yanzhi Technology

2.23.1 Hangzhou Yanzhi Technology Details

2.23.2 Hangzhou Yanzhi Technology Major Business

2.23.3 Hangzhou Yanzhi Technology AI Edge Inference Boxes Product and Services

2.23.4 Hangzhou Yanzhi Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.23.5 Hangzhou Yanzhi Technology Recent Developments/Updates

2.24 Twowin Technology

2.24.1 Twowin Technology Details

2.24.2 Twowin Technology Major Business

2.24.3 Twowin Technology AI Edge Inference Boxes Product and Services

2.24.4 Twowin Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.24.5 Twowin Technology Recent Developments/Updates

2.25 Newland Digital Technology

2.25.1 Newland Digital Technology Details

2.25.2 Newland Digital Technology Major Business

2.25.3 Newland Digital Technology AI Edge Inference Boxes Product and Services

2.25.4 Newland Digital Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.25.5 Newland Digital Technology Recent Developments/Updates

2.26 Beijing NexGemo Technology

2.26.1 Beijing NexGemo Technology Details

2.26.2 Beijing NexGemo Technology Major Business

2.26.3 Beijing NexGemo Technology AI Edge Inference Boxes Product and Services

2.26.4 Beijing NexGemo Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.26.5 Beijing NexGemo Technology Recent Developments/Updates

2.27 Alibaba Cloud

2.27.1 Alibaba Cloud Details

2.27.2 Alibaba Cloud Major Business

2.27.3 Alibaba Cloud AI Edge Inference Boxes Product and Services

2.27.4 Alibaba Cloud AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.27.5 Alibaba Cloud Recent Developments/Updates

2.28 PlanetSpark

- 2.28.1 PlanetSpark Details
- 2.28.2 PlanetSpark Major Business
- 2.28.3 PlanetSpark AI Edge Inference Boxes Product and Services
- 2.28.4 PlanetSpark AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.28.5 PlanetSpark Recent Developments/Updates
- 2.29 Lenovo
 - 2.29.1 Lenovo Details
 - 2.29.2 Lenovo Major Business
 - 2.29.3 Lenovo AI Edge Inference Boxes Product and Services
 - 2.29.4 Lenovo AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.29.5 Lenovo Recent Developments/Updates
- 2.30 Baidu
 - 2.30.1 Baidu Details
 - 2.30.2 Baidu Major Business
 - 2.30.3 Baidu AI Edge Inference Boxes Product and Services
 - 2.30.4 Baidu AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.30.5 Baidu Recent Developments/Updates
- 2.31 HIKVISION
 - 2.31.1 HIKVISION Details
 - 2.31.2 HIKVISION Major Business
 - 2.31.3 HIKVISION AI Edge Inference Boxes Product and Services
 - 2.31.4 HIKVISION AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.31.5 HIKVISION Recent Developments/Updates
- 2.32 Dahua Technology
 - 2.32.1 Dahua Technology Details
 - 2.32.2 Dahua Technology Major Business
 - 2.32.3 Dahua Technology AI Edge Inference Boxes Product and Services
 - 2.32.4 Dahua Technology AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.32.5 Dahua Technology Recent Developments/Updates
- 2.33 Huawei Technologies
 - 2.33.1 Huawei Technologies Details
 - 2.33.2 Huawei Technologies Major Business
 - 2.33.3 Huawei Technologies AI Edge Inference Boxes Product and Services
 - 2.33.4 Huawei Technologies AI Edge Inference Boxes Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.33.5 Huawei Technologies Recent Developments/Updates

2.34 Tencent

2.34.1 Tencent Details

2.34.2 Tencent Major Business

2.34.3 Tencent AI Edge Inference Boxes Product and Services

2.34.4 Tencent AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.34.5 Tencent Recent Developments/Updates

2.35 Beijing SOPHGO

2.35.1 Beijing SOPHGO Details

2.35.2 Beijing SOPHGO Major Business

2.35.3 Beijing SOPHGO AI Edge Inference Boxes Product and Services

2.35.4 Beijing SOPHGO AI Edge Inference Boxes Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.35.5 Beijing SOPHGO Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AI EDGE INFERENCE BOXES BY MANUFACTURER

3.1 Global AI Edge Inference Boxes Sales Quantity by Manufacturer (2021-2026)

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

3.3 Global AI Edge Inference Boxes Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of AI Edge Inference Boxes by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 AI Edge Inference Boxes Manufacturer Market Share in 2025

3.4.3 Top 6 AI Edge Inference Boxes Manufacturer Market Share in 2025

3.5 AI Edge Inference Boxes Market: Overall Company Footprint Analysis

3.5.1 AI Edge Inference Boxes Market: Region Footprint

3.5.2 AI Edge Inference Boxes Market: Company Product Type Footprint

3.5.3 AI Edge Inference Boxes Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global AI Edge Inference Boxes Market Size by Region

4.1.1 Global AI Edge Inference Boxes Sales Quantity by Region (2021-2032)

- 4.1.2 Global AI Edge Inference Boxes Consumption Value by Region (2021-2032)
- 4.1.3 Global AI Edge Inference Boxes Average Price by Region (2021-2032)
- 4.2 North America AI Edge Inference Boxes Consumption Value (2021-2032)
- 4.3 Europe AI Edge Inference Boxes Consumption Value (2021-2032)
- 4.4 Asia-Pacific AI Edge Inference Boxes Consumption Value (2021-2032)
- 4.5 South America AI Edge Inference Boxes Consumption Value (2021-2032)
- 4.6 Middle East & Africa AI Edge Inference Boxes Consumption Value (2021-2032)

5 MARKET SEGMENT BY COMPUTING POWER

- 5.1 Global AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)
- 5.2 Global AI Edge Inference Boxes Consumption Value by Computing Power (2021-2032)
- 5.3 Global AI Edge Inference Boxes Average Price by Computing Power (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global AI Edge Inference Boxes Sales Quantity by Application (2021-2032)
- 6.2 Global AI Edge Inference Boxes Consumption Value by Application (2021-2032)
- 6.3 Global AI Edge Inference Boxes Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)
- 7.2 North America AI Edge Inference Boxes Sales Quantity by Application (2021-2032)
- 7.3 North America AI Edge Inference Boxes Market Size by Country
 - 7.3.1 North America AI Edge Inference Boxes Sales Quantity by Country (2021-2032)
 - 7.3.2 North America AI Edge Inference Boxes Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)
- 8.2 Europe AI Edge Inference Boxes Sales Quantity by Application (2021-2032)
- 8.3 Europe AI Edge Inference Boxes Market Size by Country

- 8.3.1 Europe AI Edge Inference Boxes Sales Quantity by Country (2021-2032)
- 8.3.2 Europe AI Edge Inference Boxes Consumption Value by Country (2021-2032)
- 8.3.3 Germany Market Size and Forecast (2021-2032)
- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)
- 9.2 Asia-Pacific AI Edge Inference Boxes Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific AI Edge Inference Boxes Market Size by Region
 - 9.3.1 Asia-Pacific AI Edge Inference Boxes Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific AI Edge Inference Boxes Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)
- 10.2 South America AI Edge Inference Boxes Sales Quantity by Application (2021-2032)
- 10.3 South America AI Edge Inference Boxes Market Size by Country
 - 10.3.1 South America AI Edge Inference Boxes Sales Quantity by Country (2021-2032)
 - 10.3.2 South America AI Edge Inference Boxes Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2032)

11.2 Middle East & Africa AI Edge Inference Boxes Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa AI Edge Inference Boxes Market Size by Country

11.3.1 Middle East & Africa AI Edge Inference Boxes Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa AI Edge Inference Boxes Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 AI Edge Inference Boxes Market Drivers

12.2 AI Edge Inference Boxes Market Restraints

12.3 AI Edge Inference Boxes Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of AI Edge Inference Boxes and Key Manufacturers

13.2 Manufacturing Costs Percentage of AI Edge Inference Boxes

13.3 AI Edge Inference Boxes Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 AI Edge Inference Boxes Typical Distributors

14.3 AI Edge Inference Boxes Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global AI Edge Inference Boxes Consumption Value by Computing Power, (USD Million), 2021 & 2025 & 2032

Table 2. Global AI Edge Inference Boxes Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global AI Edge Inference Boxes Consumption Value by Physical Form, (USD Million), 2021 & 2025 & 2032

Table 4. Global AI Edge Inference Boxes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Advantech Basic Information, Manufacturing Base and Competitors

Table 6. Advantech Major Business

Table 7. Advantech AI Edge Inference Boxes Product and Services

Table 8. Advantech AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Advantech Recent Developments/Updates

Table 10. Mistral Solutions Basic Information, Manufacturing Base and Competitors

Table 11. Mistral Solutions Major Business

Table 12. Mistral Solutions AI Edge Inference Boxes Product and Services

Table 13. Mistral Solutions AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Mistral Solutions Recent Developments/Updates

Table 15. Forecr Basic Information, Manufacturing Base and Competitors

Table 16. Forecr Major Business

Table 17. Forecr AI Edge Inference Boxes Product and Services

Table 18. Forecr AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Forecr Recent Developments/Updates

Table 20. Jwipc Technology Basic Information, Manufacturing Base and Competitors

Table 21. Jwipc Technology Major Business

Table 22. Jwipc Technology AI Edge Inference Boxes Product and Services

Table 23. Jwipc Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Jwipc Technology Recent Developments/Updates

Table 25. Guangzhou STONKAM Basic Information, Manufacturing Base and Competitors

Table 26. Guangzhou STONKAM Major Business

Table 27. Guangzhou STONKAM AI Edge Inference Boxes Product and Services

Table 28. Guangzhou STONKAM AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Guangzhou STONKAM Recent Developments/Updates

Table 30. Shenzhen Geniatech Basic Information, Manufacturing Base and Competitors

Table 31. Shenzhen Geniatech Major Business

Table 32. Shenzhen Geniatech AI Edge Inference Boxes Product and Services

Table 33. Shenzhen Geniatech AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Shenzhen Geniatech Recent Developments/Updates

Table 35. Inventec Basic Information, Manufacturing Base and Competitors

Table 36. Inventec Major Business

Table 37. Inventec AI Edge Inference Boxes Product and Services

Table 38. Inventec AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Inventec Recent Developments/Updates

Table 40. Shenzhen CoreRain Basic Information, Manufacturing Base and Competitors

Table 41. Shenzhen CoreRain Major Business

Table 42. Shenzhen CoreRain AI Edge Inference Boxes Product and Services

Table 43. Shenzhen CoreRain AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Shenzhen CoreRain Recent Developments/Updates

Table 45. Sichuan Wanwu Zongheng Technology Basic Information, Manufacturing Base and Competitors

Table 46. Sichuan Wanwu Zongheng Technology Major Business

Table 47. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Product and Services

Table 48. Sichuan Wanwu Zongheng Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Sichuan Wanwu Zongheng Technology Recent Developments/Updates

Table 50. Guangzhou Embedded Machine Technology Basic Information, Manufacturing Base and Competitors

Table 51. Guangzhou Embedded Machine Technology Major Business

Table 52. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Product and Services

Table 53. Guangzhou Embedded Machine Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Guangzhou Embedded Machine Technology Recent Developments/Updates

Table 55. Shenzhen King Histrong Basic Information, Manufacturing Base and Competitors

Table 56. Shenzhen King Histrong Major Business

Table 57. Shenzhen King Histrong AI Edge Inference Boxes Product and Services

Table 58. Shenzhen King Histrong AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Shenzhen King Histrong Recent Developments/Updates

Table 60. Thundercomm Basic Information, Manufacturing Base and Competitors

Table 61. Thundercomm Major Business

Table 62. Thundercomm AI Edge Inference Boxes Product and Services

Table 63. Thundercomm AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Thundercomm Recent Developments/Updates

Table 65. Shenzhen Smart Device Technology Basic Information, Manufacturing Base and Competitors

Table 66. Shenzhen Smart Device Technology Major Business

Table 67. Shenzhen Smart Device Technology AI Edge Inference Boxes Product and Services

Table 68. Shenzhen Smart Device Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Shenzhen Smart Device Technology Recent Developments/Updates

Table 70. Amnimo Inc Basic Information, Manufacturing Base and Competitors

Table 71. Amnimo Inc Major Business

Table 72. Amnimo Inc AI Edge Inference Boxes Product and Services

Table 73. Amnimo Inc AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Amnimo Inc Recent Developments/Updates

Table 75. ADLINK Technology Basic Information, Manufacturing Base and Competitors

Table 76. ADLINK Technology Major Business

Table 77. ADLINK Technology AI Edge Inference Boxes Product and Services

Table 78. ADLINK Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ADLINK Technology Recent Developments/Updates
Table 80. Eurotech Basic Information, Manufacturing Base and Competitors
Table 81. Eurotech Major Business
Table 82. Eurotech AI Edge Inference Boxes Product and Services
Table 83. Eurotech AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. Eurotech Recent Developments/Updates
Table 85. AAEON Technology Basic Information, Manufacturing Base and Competitors
Table 86. AAEON Technology Major Business
Table 87. AAEON Technology AI Edge Inference Boxes Product and Services
Table 88. AAEON Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 89. AAEON Technology Recent Developments/Updates
Table 90. Shenzhen Micagent Basic Information, Manufacturing Base and Competitors
Table 91. Shenzhen Micagent Major Business
Table 92. Shenzhen Micagent AI Edge Inference Boxes Product and Services
Table 93. Shenzhen Micagent AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 94. Shenzhen Micagent Recent Developments/Updates
Table 95. Changzhou Haitu Electronic Basic Information, Manufacturing Base and Competitors
Table 96. Changzhou Haitu Electronic Major Business
Table 97. Changzhou Haitu Electronic AI Edge Inference Boxes Product and Services
Table 98. Changzhou Haitu Electronic AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 99. Changzhou Haitu Electronic Recent Developments/Updates
Table 100. Ingrasys Basic Information, Manufacturing Base and Competitors
Table 101. Ingrasys Major Business
Table 102. Ingrasys AI Edge Inference Boxes Product and Services
Table 103. Ingrasys AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Ingrasys Recent Developments/Updates
Table 105. EDGEMATRIX Basic Information, Manufacturing Base and Competitors
Table 106. EDGEMATRIX Major Business
Table 107. EDGEMATRIX AI Edge Inference Boxes Product and Services
Table 108. EDGEMATRIX AI Edge Inference Boxes Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. EDGEMATRIX Recent Developments/Updates

Table 110. ARBOR Basic Information, Manufacturing Base and Competitors

Table 111. ARBOR Major Business

Table 112. ARBOR AI Edge Inference Boxes Product and Services

Table 113. ARBOR AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. ARBOR Recent Developments/Updates

Table 115. Hangzhou Yanzhi Technology Basic Information, Manufacturing Base and Competitors

Table 116. Hangzhou Yanzhi Technology Major Business

Table 117. Hangzhou Yanzhi Technology AI Edge Inference Boxes Product and Services

Table 118. Hangzhou Yanzhi Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Hangzhou Yanzhi Technology Recent Developments/Updates

Table 120. Twowin Technology Basic Information, Manufacturing Base and Competitors

Table 121. Twowin Technology Major Business

Table 122. Twowin Technology AI Edge Inference Boxes Product and Services

Table 123. Twowin Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 124. Twowin Technology Recent Developments/Updates

Table 125. Newland Digital Technology Basic Information, Manufacturing Base and Competitors

Table 126. Newland Digital Technology Major Business

Table 127. Newland Digital Technology AI Edge Inference Boxes Product and Services

Table 128. Newland Digital Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 129. Newland Digital Technology Recent Developments/Updates

Table 130. Beijing NexGemo Technology Basic Information, Manufacturing Base and Competitors

Table 131. Beijing NexGemo Technology Major Business

Table 132. Beijing NexGemo Technology AI Edge Inference Boxes Product and Services

Table 133. Beijing NexGemo Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market

Share (2021-2026)

Table 134. Beijing NexGemo Technology Recent Developments/Updates

Table 135. Alibaba Cloud Basic Information, Manufacturing Base and Competitors

Table 136. Alibaba Cloud Major Business

Table 137. Alibaba Cloud AI Edge Inference Boxes Product and Services

Table 138. Alibaba Cloud AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Alibaba Cloud Recent Developments/Updates

Table 140. PlanetSpark Basic Information, Manufacturing Base and Competitors

Table 141. PlanetSpark Major Business

Table 142. PlanetSpark AI Edge Inference Boxes Product and Services

Table 143. PlanetSpark AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. PlanetSpark Recent Developments/Updates

Table 145. Lenovo Basic Information, Manufacturing Base and Competitors

Table 146. Lenovo Major Business

Table 147. Lenovo AI Edge Inference Boxes Product and Services

Table 148. Lenovo AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 149. Lenovo Recent Developments/Updates

Table 150. Baidu Basic Information, Manufacturing Base and Competitors

Table 151. Baidu Major Business

Table 152. Baidu AI Edge Inference Boxes Product and Services

Table 153. Baidu AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 154. Baidu Recent Developments/Updates

Table 155. HIKVISION Basic Information, Manufacturing Base and Competitors

Table 156. HIKVISION Major Business

Table 157. HIKVISION AI Edge Inference Boxes Product and Services

Table 158. HIKVISION AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 159. HIKVISION Recent Developments/Updates

Table 160. Dahua Technology Basic Information, Manufacturing Base and Competitors

Table 161. Dahua Technology Major Business

Table 162. Dahua Technology AI Edge Inference Boxes Product and Services

Table 163. Dahua Technology AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. Dahua Technology Recent Developments/Updates

Table 165. Huawei Technologies Basic Information, Manufacturing Base and Competitors
Table 166. Huawei Technologies Major Business
Table 167. Huawei Technologies AI Edge Inference Boxes Product and Services
Table 168. Huawei Technologies AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Huawei Technologies Recent Developments/Updates
Table 170. Tencent Basic Information, Manufacturing Base and Competitors
Table 171. Tencent Major Business
Table 172. Tencent AI Edge Inference Boxes Product and Services
Table 173. Tencent AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 174. Tencent Recent Developments/Updates
Table 175. Beijing SOPHGO Basic Information, Manufacturing Base and Competitors
Table 176. Beijing SOPHGO Major Business
Table 177. Beijing SOPHGO AI Edge Inference Boxes Product and Services
Table 178. Beijing SOPHGO AI Edge Inference Boxes Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 179. Beijing SOPHGO Recent Developments/Updates
Table 180. Global AI Edge Inference Boxes Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 181. Global AI Edge Inference Boxes Revenue by Manufacturer (2021-2026) & (USD Million)
Table 182. Global AI Edge Inference Boxes Average Price by Manufacturer (2021-2026) & (US\$/Unit)
Table 183. Market Position of Manufacturers in AI Edge Inference Boxes, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 184. Head Office and AI Edge Inference Boxes Production Site of Key Manufacturer
Table 185. AI Edge Inference Boxes Market: Company Product Type Footprint
Table 186. AI Edge Inference Boxes Market: Company Product Application Footprint
Table 187. AI Edge Inference Boxes New Market Entrants and Barriers to Market Entry
Table 188. AI Edge Inference Boxes Mergers, Acquisition, Agreements, and Collaborations
Table 189. Global AI Edge Inference Boxes Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 190. Global AI Edge Inference Boxes Sales Quantity by Region (2021-2026) & (K

Units)

Table 191. Global AI Edge Inference Boxes Sales Quantity by Region (2027-2032) & (K Units)

Table 192. Global AI Edge Inference Boxes Consumption Value by Region (2021-2026) & (USD Million)

Table 193. Global AI Edge Inference Boxes Consumption Value by Region (2027-2032) & (USD Million)

Table 194. Global AI Edge Inference Boxes Average Price by Region (2021-2026) & (US\$/Unit)

Table 195. Global AI Edge Inference Boxes Average Price by Region (2027-2032) & (US\$/Unit)

Table 196. Global AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 197. Global AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 198. Global AI Edge Inference Boxes Consumption Value by Computing Power (2021-2026) & (USD Million)

Table 199. Global AI Edge Inference Boxes Consumption Value by Computing Power (2027-2032) & (USD Million)

Table 200. Global AI Edge Inference Boxes Average Price by Computing Power (2021-2026) & (US\$/Unit)

Table 201. Global AI Edge Inference Boxes Average Price by Computing Power (2027-2032) & (US\$/Unit)

Table 202. Global AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 203. Global AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 204. Global AI Edge Inference Boxes Consumption Value by Application (2021-2026) & (USD Million)

Table 205. Global AI Edge Inference Boxes Consumption Value by Application (2027-2032) & (USD Million)

Table 206. Global AI Edge Inference Boxes Average Price by Application (2021-2026) & (US\$/Unit)

Table 207. Global AI Edge Inference Boxes Average Price by Application (2027-2032) & (US\$/Unit)

Table 208. North America AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 209. North America AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 210. North America AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 211. North America AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 212. North America AI Edge Inference Boxes Sales Quantity by Country (2021-2026) & (K Units)

Table 213. North America AI Edge Inference Boxes Sales Quantity by Country (2027-2032) & (K Units)

Table 214. North America AI Edge Inference Boxes Consumption Value by Country (2021-2026) & (USD Million)

Table 215. North America AI Edge Inference Boxes Consumption Value by Country (2027-2032) & (USD Million)

Table 216. Europe AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 217. Europe AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 218. Europe AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 219. Europe AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 220. Europe AI Edge Inference Boxes Sales Quantity by Country (2021-2026) & (K Units)

Table 221. Europe AI Edge Inference Boxes Sales Quantity by Country (2027-2032) & (K Units)

Table 222. Europe AI Edge Inference Boxes Consumption Value by Country (2021-2026) & (USD Million)

Table 223. Europe AI Edge Inference Boxes Consumption Value by Country (2027-2032) & (USD Million)

Table 224. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 225. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 226. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 227. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 228. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Region (2021-2026) & (K Units)

Table 229. Asia-Pacific AI Edge Inference Boxes Sales Quantity by Region (2027-2032)

& (K Units)

Table 230. Asia-Pacific AI Edge Inference Boxes Consumption Value by Region (2021-2026) & (USD Million)

Table 231. Asia-Pacific AI Edge Inference Boxes Consumption Value by Region (2027-2032) & (USD Million)

Table 232. South America AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 233. South America AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 234. South America AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 235. South America AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 236. South America AI Edge Inference Boxes Sales Quantity by Country (2021-2026) & (K Units)

Table 237. South America AI Edge Inference Boxes Sales Quantity by Country (2027-2032) & (K Units)

Table 238. South America AI Edge Inference Boxes Consumption Value by Country (2021-2026) & (USD Million)

Table 239. South America AI Edge Inference Boxes Consumption Value by Country (2027-2032) & (USD Million)

Table 240. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Computing Power (2021-2026) & (K Units)

Table 241. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Computing Power (2027-2032) & (K Units)

Table 242. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Application (2021-2026) & (K Units)

Table 243. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Application (2027-2032) & (K Units)

Table 244. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Country (2021-2026) & (K Units)

Table 245. Middle East & Africa AI Edge Inference Boxes Sales Quantity by Country (2027-2032) & (K Units)

Table 246. Middle East & Africa AI Edge Inference Boxes Consumption Value by Country (2021-2026) & (USD Million)

Table 247. Middle East & Africa AI Edge Inference Boxes Consumption Value by Country (2027-2032) & (USD Million)

Table 248. AI Edge Inference Boxes Raw Material

Table 249. Key Manufacturers of AI Edge Inference Boxes Raw Materials

Table 250. AI Edge Inference Boxes Typical Distributors

Table 251. AI Edge Inference Boxes Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. AI Edge Inference Boxes Picture

Figure 2. Global AI Edge Inference Boxes Revenue by Computing Power, (USD Million), 2021 & 2025 & 2032

Figure 3. Global AI Edge Inference Boxes Revenue Market Share by Computing Power in 2025

Figure 4. Below 20 TOPS Examples

Figure 5. 20-100 TOPS Examples

Figure 6. Above 100TOPS Examples

Figure 7. Global AI Edge Inference Boxes Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 8. Global AI Edge Inference Boxes Revenue Market Share by Type in 2025

Figure 9. CPU-based Examples

Figure 10. GPU-based Examples

Figure 11. NPU/TPU/VPU-based Examples

Figure 12. FPGA-based Examples

Figure 13. Others Examples

Figure 14. Global AI Edge Inference Boxes Revenue by Physical Form, (USD Million), 2021 & 2025 & 2032

Figure 15. Global AI Edge Inference Boxes Revenue Market Share by Physical Form in 2025

Figure 16. Standard Commercial Box Examples

Figure 17. Micro AI Module Examples

Figure 18. Global AI Edge Inference Boxes Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 19. Global AI Edge Inference Boxes Revenue Market Share by Application in 2025

Figure 20. Smart Manufacturing Examples

Figure 21. Smart City Examples

Figure 22. Retail Industry Examples

Figure 23. Smart Mining Examples

Figure 24. Autonomous Driving Examples

Figure 25. Others Examples

Figure 26. Global AI Edge Inference Boxes Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 27. Global AI Edge Inference Boxes Consumption Value and Forecast

(2021-2032) & (USD Million)

Figure 28. Global AI Edge Inference Boxes Sales Quantity (2021-2032) & (K Units)

Figure 29. Global AI Edge Inference Boxes Price (2021-2032) & (US\$/Unit)

Figure 30. Global AI Edge Inference Boxes Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global AI Edge Inference Boxes Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of AI Edge Inference Boxes by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 AI Edge Inference Boxes Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 AI Edge Inference Boxes Manufacturer (Revenue) Market Share in 2025

Figure 35. Global AI Edge Inference Boxes Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global AI Edge Inference Boxes Consumption Value Market Share by Region (2021-2032)

Figure 37. North America AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 40. South America AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 42. Global AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 43. Global AI Edge Inference Boxes Consumption Value Market Share by Computing Power (2021-2032)

Figure 44. Global AI Edge Inference Boxes Average Price by Computing Power (2021-2032) & (US\$/Unit)

Figure 45. Global AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global AI Edge Inference Boxes Revenue Market Share by Application (2021-2032)

Figure 47. Global AI Edge Inference Boxes Average Price by Application (2021-2032) & (US\$/Unit)

Figure 48. North America AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 49. North America AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America AI Edge Inference Boxes Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America AI Edge Inference Boxes Consumption Value Market Share by Country (2021-2032)

Figure 52. United States AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 56. Europe AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe AI Edge Inference Boxes Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe AI Edge Inference Boxes Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 60. France AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 65. Asia-Pacific AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific AI Edge Inference Boxes Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific AI Edge Inference Boxes Consumption Value Market Share by

Region (2021-2032)

Figure 68. China AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 71. India AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 74. South America AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 75. South America AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America AI Edge Inference Boxes Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America AI Edge Inference Boxes Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa AI Edge Inference Boxes Sales Quantity Market Share by Computing Power (2021-2032)

Figure 81. Middle East & Africa AI Edge Inference Boxes Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa AI Edge Inference Boxes Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa AI Edge Inference Boxes Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa AI Edge Inference Boxes Consumption Value (2021-2032) & (USD Million)

Figure 88. AI Edge Inference Boxes Market Drivers

Figure 89. AI Edge Inference Boxes Market Restraints

Figure 90. AI Edge Inference Boxes Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of AI Edge Inference Boxes in 2025

Figure 93. Manufacturing Process Analysis of AI Edge Inference Boxes

Figure 94. AI Edge Inference Boxes Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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