

Global Edge AI Vision Processor Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Edge AI Vision Processor competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. This specialized low-power AI chip integrates vision processing units (VPUs) and neural network accelerators to perform real-time computer vision tasks (e.g., image recognition, object detection) directly on edge devices. Featuring optimized energy-efficient architecture and support for major deep learning frameworks, it enables localized intelligent processing for applications demanding real-time response and data privacy like surveillance, industrial inspection, and autonomous driving, minimizing reliance on cloud computing. The edge AI vision processor industry is undergoing a transformation from general computing architecture to scene-specific design. With the rapid penetration of computer vision applications in vertical fields such as industry and retail, processor manufacturers have begun to optimize the architecture for computing power distribution and energy efficiency requirements in different scenarios. For example, industrial quality inspection emphasizes low-latency reasoning, while consumer-grade devices focus on power consumption control. This differentiation trend has been clearly shown in the latest product roadmaps of leading chip manufacturers. The technological evolution presents the characteristics of algorithm and chip co-design. The new generation of processors no longer simply pursues TOPS computing power indicators, but improves the effective computing power utilization in real scenarios through innovations such as visual algorithm hardening and multimodal data fusion architecture. Especially in frontier directions such as end-side training and adaptive reasoning, processors are evolving from simple accelerators to autonomous evolution systems. The industry competition dimension is shifting from hardware parameters to overall solution capabilities. As AI vision applications sink to more long-

tail scenarios, chip manufacturers need to provide full-stack support from development tool chains, algorithm models to power optimization. This shift gives players with algorithm ecology and vertical industry experience more advantages. At the same time, the rise of privacy computing needs has also promoted the trusted execution environment to become a standard feature of the new generation of processors.

The global Edge AI Vision Processor market size was estimated at USD 1412.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Edge AI Vision Processor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Edge AI Vision Processor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Edge AI Vision Processor market.

Global Edge AI Vision Processor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their

product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Ambarella
Blaize
Hailo
Intel
Kinara
Mythic
NVIDIA
Qualcomm
Synaptics
Synopsys
Texas Instruments

Market Segmentation (by Type)

1 TOPS
8 TOPS
32 TOPS
Others

Market Segmentation (by Application)

Industrial Automation
Security Camera System
Autonomous Driving
Smart Retail
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Edge AI Vision Processor Market
Overview of the regional outlook of the Edge AI Vision Processor Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Edge AI Vision Processor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Edge AI Vision Processor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change. This enables you to anticipate market changes to remain ahead of your competitors. You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents.

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Edge AI Vision Processor

1.2 Key Market Segments

1.2.1 Edge AI Vision Processor Segment by Type

1.2.2 Edge AI Vision Processor Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 EDGE AI VISION PROCESSOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Edge AI Vision Processor Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Edge AI Vision Processor Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 EDGE AI VISION PROCESSOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Edge AI Vision Processor Product Life Cycle

3.3 Global Edge AI Vision Processor Sales by Manufacturers (2020-2025)

3.4 Global Edge AI Vision Processor Revenue Market Share by Manufacturers (2020-2025)

3.5 Edge AI Vision Processor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Edge AI Vision Processor Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Edge AI Vision Processor Market Competitive Situation and Trends

3.8.1 Edge AI Vision Processor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Edge AI Vision Processor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 EDGE AI VISION PROCESSOR INDUSTRY CHAIN ANALYSIS

4.1 Edge AI Vision Processor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF EDGE AI VISION PROCESSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Edge AI Vision Processor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Edge AI Vision Processor Market

5.7 ESG Ratings of Leading Companies

6 EDGE AI VISION PROCESSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Edge AI Vision Processor Sales Market Share by Type (2020-2025)

6.3 Global Edge AI Vision Processor Market Size by Type (2020-2025)

6.4 Global Edge AI Vision Processor Price by Type (2020-2025)

7 EDGE AI VISION PROCESSOR MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Edge AI Vision Processor Market Sales by Application (2020-2025)
- 7.3 Global Edge AI Vision Processor Market Size (M USD) by Application (2020-2025)
- 7.4 Global Edge AI Vision Processor Sales Growth Rate by Application (2020-2025)

8 EDGE AI VISION PROCESSOR MARKET SALES BY REGION

- 8.1 Global Edge AI Vision Processor Sales by Region
 - 8.1.1 Global Edge AI Vision Processor Sales by Region
 - 8.1.2 Global Edge AI Vision Processor Sales Market Share by Region
- 8.2 Global Edge AI Vision Processor Market Size by Region
 - 8.2.1 Global Edge AI Vision Processor Market Size by Region
 - 8.2.2 Global Edge AI Vision Processor Market Size by Region
- 8.3 North America
 - 8.3.1 North America Edge AI Vision Processor Sales by Country
 - 8.3.2 North America Edge AI Vision Processor Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Edge AI Vision Processor Sales by Country
 - 8.4.2 Europe Edge AI Vision Processor Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Edge AI Vision Processor Sales by Region
 - 8.5.2 Asia Pacific Edge AI Vision Processor Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Edge AI Vision Processor Sales by Country
 - 8.6.2 South America Edge AI Vision Processor Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Edge AI Vision Processor Sales by Region

8.7.2 Middle East and Africa Edge AI Vision Processor Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 EDGE AI VISION PROCESSOR MARKET PRODUCTION BY REGION

9.1 Global Production of Edge AI Vision Processor by Region(2020-2025)

9.2 Global Edge AI Vision Processor Revenue Market Share by Region (2020-2025)

9.3 Global Edge AI Vision Processor Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Edge AI Vision Processor Production

9.4.1 North America Edge AI Vision Processor Production Growth Rate (2020-2025)

9.4.2 North America Edge AI Vision Processor Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Edge AI Vision Processor Production

9.5.1 Europe Edge AI Vision Processor Production Growth Rate (2020-2025)

9.5.2 Europe Edge AI Vision Processor Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Edge AI Vision Processor Production (2020-2025)

9.6.1 Japan Edge AI Vision Processor Production Growth Rate (2020-2025)

9.6.2 Japan Edge AI Vision Processor Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Edge AI Vision Processor Production (2020-2025)

9.7.1 China Edge AI Vision Processor Production Growth Rate (2020-2025)

9.7.2 China Edge AI Vision Processor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Ambarella

10.1.1 Ambarella Basic Information

- 10.1.2 Ambarella Edge AI Vision Processor Product Overview
- 10.1.3 Ambarella Edge AI Vision Processor Product Market Performance
- 10.1.4 Ambarella Business Overview
- 10.1.5 Ambarella SWOT Analysis
- 10.1.6 Ambarella Recent Developments
- 10.2 Blaize
 - 10.2.1 Blaize Basic Information
 - 10.2.2 Blaize Edge AI Vision Processor Product Overview
 - 10.2.3 Blaize Edge AI Vision Processor Product Market Performance
 - 10.2.4 Blaize Business Overview
 - 10.2.5 Blaize SWOT Analysis
 - 10.2.6 Blaize Recent Developments
- 10.3 Hailo
 - 10.3.1 Hailo Basic Information
 - 10.3.2 Hailo Edge AI Vision Processor Product Overview
 - 10.3.3 Hailo Edge AI Vision Processor Product Market Performance
 - 10.3.4 Hailo Business Overview
 - 10.3.5 Hailo SWOT Analysis
 - 10.3.6 Hailo Recent Developments
- 10.4 Intel
 - 10.4.1 Intel Basic Information
 - 10.4.2 Intel Edge AI Vision Processor Product Overview
 - 10.4.3 Intel Edge AI Vision Processor Product Market Performance
 - 10.4.4 Intel Business Overview
 - 10.4.5 Intel Recent Developments
- 10.5 Kinara
 - 10.5.1 Kinara Basic Information
 - 10.5.2 Kinara Edge AI Vision Processor Product Overview
 - 10.5.3 Kinara Edge AI Vision Processor Product Market Performance
 - 10.5.4 Kinara Business Overview
 - 10.5.5 Kinara Recent Developments
- 10.6 Mythic
 - 10.6.1 Mythic Basic Information
 - 10.6.2 Mythic Edge AI Vision Processor Product Overview
 - 10.6.3 Mythic Edge AI Vision Processor Product Market Performance
 - 10.6.4 Mythic Business Overview
 - 10.6.5 Mythic Recent Developments
- 10.7 NVIDIA
 - 10.7.1 NVIDIA Basic Information

- 10.7.2 NVIDIA Edge AI Vision Processor Product Overview
- 10.7.3 NVIDIA Edge AI Vision Processor Product Market Performance
- 10.7.4 NVIDIA Business Overview
- 10.7.5 NVIDIA Recent Developments
- 10.8 Qualcomm
 - 10.8.1 Qualcomm Basic Information
 - 10.8.2 Qualcomm Edge AI Vision Processor Product Overview
 - 10.8.3 Qualcomm Edge AI Vision Processor Product Market Performance
 - 10.8.4 Qualcomm Business Overview
 - 10.8.5 Qualcomm Recent Developments
- 10.9 Synaptics
 - 10.9.1 Synaptics Basic Information
 - 10.9.2 Synaptics Edge AI Vision Processor Product Overview
 - 10.9.3 Synaptics Edge AI Vision Processor Product Market Performance
 - 10.9.4 Synaptics Business Overview
 - 10.9.5 Synaptics Recent Developments
- 10.10 Synopsys
 - 10.10.1 Synopsys Basic Information
 - 10.10.2 Synopsys Edge AI Vision Processor Product Overview
 - 10.10.3 Synopsys Edge AI Vision Processor Product Market Performance
 - 10.10.4 Synopsys Business Overview
 - 10.10.5 Synopsys Recent Developments
- 10.11 Texas Instruments
 - 10.11.1 Texas Instruments Basic Information
 - 10.11.2 Texas Instruments Edge AI Vision Processor Product Overview
 - 10.11.3 Texas Instruments Edge AI Vision Processor Product Market Performance
 - 10.11.4 Texas Instruments Business Overview
 - 10.11.5 Texas Instruments Recent Developments

11 EDGE AI VISION PROCESSOR MARKET FORECAST BY REGION

- 11.1 Global Edge AI Vision Processor Market Size Forecast
- 11.2 Global Edge AI Vision Processor Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Edge AI Vision Processor Market Size Forecast by Country
 - 11.2.3 Asia Pacific Edge AI Vision Processor Market Size Forecast by Region
 - 11.2.4 South America Edge AI Vision Processor Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Edge AI Vision Processor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Edge AI Vision Processor Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Edge AI Vision Processor by Type (2026-2035)

12.1.2 Global Edge AI Vision Processor Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Edge AI Vision Processor by Type (2026-2035)

12.2 Global Edge AI Vision Processor Market Forecast by Application (2026-2035)

12.2.1 Global Edge AI Vision Processor Sales (K Units) Forecast by Application

12.2.2 Global Edge AI Vision Processor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Global Edge AI Vision Processor Market Size by Type (M USD)
Table 4. Global Edge AI Vision Processor Market Size by Application
Table 5. Edge AI Vision Processor Market Size Comparison by Region (M USD)
Table 6. Global Edge AI Vision Processor Sales (K Units) by Manufacturers (2020-2025)
Table 7. Global Edge AI Vision Processor Sales Market Share by Manufacturers (2020-2025)
Table 8. Global Edge AI Vision Processor Revenue (M USD) by Manufacturers (2020-2025)
Table 9. Global Edge AI Vision Processor Revenue Share by Manufacturers (2020-2025)
Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Edge AI Vision Processor as of 2025)
Table 11. Global Market Edge AI Vision Processor Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 12. Manufacturers? Manufacturing Sites, Areas Served
Table 13. Manufacturers? Product Type
Table 14. Global Edge AI Vision Processor Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 15. Mergers & Acquisitions, Expansion Plans
Table 16. Market Overview of Key Raw Materials
Table 17. Midstream Market Analysis
Table 18. Downstream Customer Analysis
Table 19. Key Development Trends
Table 20. Driving Factors
Table 21. Edge AI Vision Processor Market Challenges
Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 26. Global Edge AI Vision Processor Sales by Type (K Units)
Table 27. Global Edge AI Vision Processor Market Size by Type (M USD)

Table 28. Global Edge AI Vision Processor Sales (K Units) by Type (2020-2025)
Table 29. Global Edge AI Vision Processor Sales Market Share by Type (2020-2025)
Table 30. Global Edge AI Vision Processor Market Size (M USD) by Type (2020-2025)
Table 31. Global Edge AI Vision Processor Market Share by Type (2020-2025)
Table 32. Global Edge AI Vision Processor Price (USD/Unit) by Type (2020-2025)
Table 33. Global Edge AI Vision Processor Sales (K Units) by Application
Table 34. Global Edge AI Vision Processor Market Size by Application
Table 35. Global Edge AI Vision Processor Sales by Application (2020-2025) & (K Units)
Table 36. Global Edge AI Vision Processor Sales Market Share by Application (2020-2025)
Table 37. Global Edge AI Vision Processor Market Size by Application (2020-2025) & (M USD)
Table 38. Global Edge AI Vision Processor Market Share by Application (2020-2025)
Table 39. Global Edge AI Vision Processor Sales Growth Rate by Application (2020-2025)
Table 40. Global Edge AI Vision Processor Sales by Region (2020-2025) & (K Units)
Table 41. Global Edge AI Vision Processor Sales Market Share by Region (2020-2025)
Table 42. Global Edge AI Vision Processor Market Size by Region (2020-2025) & (M USD)
Table 43. Global Edge AI Vision Processor Market Size by Region (2020-2025)
Table 44. North America Edge AI Vision Processor Sales by Country (2020-2025) & (K Units)
Table 45. North America Edge AI Vision Processor Market Size by Country (2020-2025) & (M USD)
Table 46. Europe Edge AI Vision Processor Sales by Country (2020-2025) & (K Units)
Table 47. Europe Edge AI Vision Processor Market Size by Country (2020-2025) & (M USD)
Table 48. Asia Pacific Edge AI Vision Processor Sales by Region (2020-2025) & (K Units)
Table 49. Asia Pacific Edge AI Vision Processor Market Size by Region (2020-2025) & (M USD)
Table 50. South America Edge AI Vision Processor Sales by Country (2020-2025) & (K Units)
Table 51. South America Edge AI Vision Processor Market Size by Country (2020-2025) & (M USD)
Table 52. Middle East and Africa Edge AI Vision Processor Sales by Region (2020-2025) & (K Units)
Table 53. Middle East and Africa Edge AI Vision Processor Market Size by Region

(2020-2025) & (M USD)

Table 54. Global Edge AI Vision Processor Production (K Units) by Region(2020-2025)

Table 55. Global Edge AI Vision Processor Revenue (US\$ Million) by Region
(2020-2025)

Table 56. Global Edge AI Vision Processor Revenue Market Share by Region
(2020-2025)

Table 57. Global Edge AI Vision Processor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Edge AI Vision Processor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Edge AI Vision Processor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Edge AI Vision Processor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Edge AI Vision Processor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Ambarella Basic Information

Table 63. Ambarella Edge AI Vision Processor Product Overview

Table 64. Ambarella Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Ambarella Business Overview

Table 66. Ambarella SWOT Analysis

Table 67. Ambarella Recent Developments

Table 68. Blaize Basic Information

Table 69. Blaize Edge AI Vision Processor Product Overview

Table 70. Blaize Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Blaize Business Overview

Table 72. Blaize SWOT Analysis

Table 73. Blaize Recent Developments

Table 74. Hailo Basic Information

Table 75. Hailo Edge AI Vision Processor Product Overview

Table 76. Hailo Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Hailo Business Overview

Table 78. Hailo SWOT Analysis

Table 79. Hailo Recent Developments

Table 80. Intel Basic Information

Table 81. Intel Edge AI Vision Processor Product Overview

Table 82. Intel Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Intel Business Overview

Table 84. Intel Recent Developments

Table 85. Kinara Basic Information

Table 86. Kinara Edge AI Vision Processor Product Overview

Table 87. Kinara Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Kinara Business Overview

Table 89. Kinara Recent Developments

Table 90. Mythic Basic Information

Table 91. Mythic Edge AI Vision Processor Product Overview

Table 92. Mythic Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Mythic Business Overview

Table 94. Mythic Recent Developments

Table 95. NVIDIA Basic Information

Table 96. NVIDIA Edge AI Vision Processor Product Overview

Table 97. NVIDIA Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. NVIDIA Business Overview

Table 99. NVIDIA Recent Developments

Table 100. Qualcomm Basic Information

Table 101. Qualcomm Edge AI Vision Processor Product Overview

Table 102. Qualcomm Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Qualcomm Business Overview

Table 104. Qualcomm Recent Developments

Table 105. Synaptics Basic Information

Table 106. Synaptics Edge AI Vision Processor Product Overview

Table 107. Synaptics Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Synaptics Business Overview

Table 109. Synaptics Recent Developments

Table 110. Synopsys Basic Information

Table 111. Synopsys Edge AI Vision Processor Product Overview

Table 112. Synopsys Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Synopsys Business Overview

Table 114. Synopsys Recent Developments
Table 115. Texas Instruments Basic Information
Table 116. Texas Instruments Edge AI Vision Processor Product Overview
Table 117. Texas Instruments Edge AI Vision Processor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 118. Texas Instruments Business Overview
Table 119. Texas Instruments Recent Developments
Table 120. Global Edge AI Vision Processor Sales Forecast by Region (2026-2035) & (K Units)
Table 121. Global Edge AI Vision Processor Market Size Forecast by Region (2026-2035) & (M USD)
Table 122. North America Edge AI Vision Processor Sales Forecast by Country (2026-2035) & (K Units)
Table 123. North America Edge AI Vision Processor Market Size Forecast by Country (2026-2035) & (M USD)
Table 124. Europe Edge AI Vision Processor Sales Forecast by Country (2026-2035) & (K Units)
Table 125. Europe Edge AI Vision Processor Market Size Forecast by Country (2026-2035) & (M USD)
Table 126. Asia Pacific Edge AI Vision Processor Sales Forecast by Region (2026-2035) & (K Units)
Table 127. Asia Pacific Edge AI Vision Processor Market Size Forecast by Region (2026-2035) & (M USD)
Table 128. South America Edge AI Vision Processor Sales Forecast by Country (2026-2035) & (K Units)
Table 129. South America Edge AI Vision Processor Market Size Forecast by Country (2026-2035) & (M USD)
Table 130. Middle East and Africa Edge AI Vision Processor Sales Forecast by Country (2026-2035) & (Units)
Table 131. Middle East and Africa Edge AI Vision Processor Market Size Forecast by Country (2026-2035) & (M USD)
Table 132. Global Edge AI Vision Processor Sales Forecast by Type (2026-2035) & (K Units)
Table 133. Global Edge AI Vision Processor Market Size Forecast by Type (2026-2035) & (M USD)
Table 134. Global Edge AI Vision Processor Price Forecast by Type (2026-2035) & (USD/Unit)
Table 135. Global Edge AI Vision Processor Sales (K Units) Forecast by Application (2026-2035)

Table 136. Global Edge AI Vision Processor Market Size Forecast by Application
(2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Edge AI Vision Processor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Edge AI Vision Processor Market Size (M USD), 2025-2035
- Figure 5. Global Edge AI Vision Processor Market Size (M USD) (2020-2035)
- Figure 6. Global Edge AI Vision Processor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Edge AI Vision Processor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Edge AI Vision Processor Product Life Cycle
- Figure 13. Edge AI Vision Processor Sales Share by Manufacturers in 2025
- Figure 14. Global Edge AI Vision Processor Revenue Share by Manufacturers in 2025
- Figure 15. Edge AI Vision Processor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Edge AI Vision Processor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Edge AI Vision Processor Revenue in 2025
- Figure 18. Industry Chain Map of Edge AI Vision Processor
- Figure 19. Global Edge AI Vision Processor Market PEST Analysis
- Figure 20. Global Edge AI Vision Processor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Edge AI Vision Processor Market Share by Type
- Figure 27. Sales Market Share of Edge AI Vision Processor by Type (2020-2025)
- Figure 28. Sales Market Share of Edge AI Vision Processor by Type in 2025
- Figure 29. Market Share of Edge AI Vision Processor by Type (2020-2025)
- Figure 30. Market Share of Edge AI Vision Processor by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Edge AI Vision Processor Market Share by Application

Figure 33. Global Edge AI Vision Processor Sales Market Share by Application (2020-2025)

Figure 34. Global Edge AI Vision Processor Sales Market Share by Application in 2025

Figure 35. Global Edge AI Vision Processor Market Share by Application (2020-2025)

Figure 36. Global Edge AI Vision Processor Market Share by Application in 2025

Figure 37. Global Edge AI Vision Processor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Edge AI Vision Processor Sales Market Share by Region (2020-2025)

Figure 39. Global Edge AI Vision Processor Market Size by Region (2020-2025)

Figure 40. North America Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Edge AI Vision Processor Sales Market Share by Country in 2024

Figure 43. North America Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Edge AI Vision Processor Market Size by Country in 2024

Figure 45. U.S. Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Edge AI Vision Processor Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Edge AI Vision Processor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Edge AI Vision Processor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Edge AI Vision Processor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Edge AI Vision Processor Sales Market Share by Country in 2024

Figure 53. Europe Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Edge AI Vision Processor Market Size by Country in 2024

Figure 55. Germany Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Edge AI Vision Processor Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 57. France Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Edge AI Vision Processor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Edge AI Vision Processor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Edge AI Vision Processor Market Size by Region in 2024

Figure 68. China Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Edge AI Vision Processor Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 78. South America Edge AI Vision Processor Sales and Growth Rate (K Units)

Figure 79. South America Edge AI Vision Processor Sales Market Share by Country in 2024

Figure 80. South America Edge AI Vision Processor Market Size and Growth Rate (M USD)

Figure 81. South America Edge AI Vision Processor Market Size by Country in 2024

Figure 82. Brazil Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Edge AI Vision Processor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Edge AI Vision Processor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Edge AI Vision Processor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Edge AI Vision Processor Market Size by Region in 2024

Figure 92. Saudi Arabia Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Edge AI Vision Processor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Edge AI Vision Processor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Edge AI Vision Processor Production Market Share by Region (2020-2025)

Figure 103. North America Edge AI Vision Processor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Edge AI Vision Processor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Edge AI Vision Processor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Edge AI Vision Processor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Edge AI Vision Processor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Edge AI Vision Processor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Edge AI Vision Processor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Edge AI Vision Processor Market Share Forecast by Type (2026-2035)

Figure 111. Global Edge AI Vision Processor Sales Forecast by Application (2026-2035)

Figure 112. Global Edge AI Vision Processor Market Share Forecast by Application (2026-2035)

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