

Global Edge AI Sensing Devices Market Research Report 2026(Status and Outlook)

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Abstracts

Edge AI sensing devices refer to smart sensors that integrate artificial intelligence (AI) algorithms and models on edge devices close to data sources and can directly process and analyze data. These devices usually include smartphones, cameras, Internet of Things (IoT) devices, sensors, etc. They achieve advantages such as low latency, bandwidth savings, and improved privacy protection by moving computing power close to the data source.

The global Edge AI Sensing Devices market size was estimated at USD 4365.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 15.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Edge AI Sensing Devices 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 Sensing Devices 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 Sensing Devices market.

Global Edge AI Sensing Devices 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

Sony Semiconductor Solutions Group
Samsung
STMicroelectronics
Infineon
Texas Instruments
Hikvision
SenseTime
NVIDIA
Bosch Sensortec
Intel
Omron
Qualcomm

Market Segmentation (by Type)

Camera
Microphone

Temperature Sensor
Motion Sensor
Other

Market Segmentation (by Application)

Autonomous Driving
Industrial Automation
Healthcare
Other

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 Sensing Devices Market
Overview of the regional outlook of the Edge AI Sensing Devices 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 Sensing Devices 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 Sensing Devices, 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 Sensing Devices
- 1.2 Key Market Segments
 - 1.2.1 Edge AI Sensing Devices Segment by Type
 - 1.2.2 Edge AI Sensing Devices 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 SENSING DEVICES MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Edge AI Sensing Devices Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Edge AI Sensing Devices Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 EDGE AI SENSING DEVICES MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Edge AI Sensing Devices Product Life Cycle
- 3.3 Global Edge AI Sensing Devices Sales by Manufacturers (2020-2025)
- 3.4 Global Edge AI Sensing Devices Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Edge AI Sensing Devices Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Edge AI Sensing Devices Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Edge AI Sensing Devices Market Competitive Situation and Trends
 - 3.8.1 Edge AI Sensing Devices Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Edge AI Sensing Devices Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 EDGE AI SENSING DEVICES INDUSTRY CHAIN ANALYSIS

4.1 Edge AI Sensing Devices 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 SENSING DEVICES 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 Sensing Devices 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 Sensing Devices Market

5.7 ESG Ratings of Leading Companies

6 EDGE AI SENSING DEVICES MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Edge AI Sensing Devices Sales Market Share by Type (2020-2025)

6.3 Global Edge AI Sensing Devices Market Size by Type (2020-2025)

6.4 Global Edge AI Sensing Devices Price by Type (2020-2025)

7 EDGE AI SENSING DEVICES MARKET SEGMENTATION BY APPLICATION

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

8 EDGE AI SENSING DEVICES MARKET SALES BY REGION

- 8.1 Global Edge AI Sensing Devices Sales by Region
 - 8.1.1 Global Edge AI Sensing Devices Sales by Region
 - 8.1.2 Global Edge AI Sensing Devices Sales Market Share by Region
- 8.2 Global Edge AI Sensing Devices Market Size by Region
 - 8.2.1 Global Edge AI Sensing Devices Market Size by Region
 - 8.2.2 Global Edge AI Sensing Devices Market Size by Region
- 8.3 North America
 - 8.3.1 North America Edge AI Sensing Devices Sales by Country
 - 8.3.2 North America Edge AI Sensing Devices 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 Sensing Devices Sales by Country
 - 8.4.2 Europe Edge AI Sensing Devices 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 Sensing Devices Sales by Region
 - 8.5.2 Asia Pacific Edge AI Sensing Devices 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 Sensing Devices Sales by Country
 - 8.6.2 South America Edge AI Sensing Devices 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 Sensing Devices Sales by Region
 - 8.7.2 Middle East and Africa Edge AI Sensing Devices 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 SENSING DEVICES MARKET PRODUCTION BY REGION

- 9.1 Global Production of Edge AI Sensing Devices by Region(2020-2025)
- 9.2 Global Edge AI Sensing Devices Revenue Market Share by Region (2020-2025)
- 9.3 Global Edge AI Sensing Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Edge AI Sensing Devices Production
 - 9.4.1 North America Edge AI Sensing Devices Production Growth Rate (2020-2025)
 - 9.4.2 North America Edge AI Sensing Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Edge AI Sensing Devices Production
 - 9.5.1 Europe Edge AI Sensing Devices Production Growth Rate (2020-2025)
 - 9.5.2 Europe Edge AI Sensing Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Edge AI Sensing Devices Production (2020-2025)
 - 9.6.1 Japan Edge AI Sensing Devices Production Growth Rate (2020-2025)
 - 9.6.2 Japan Edge AI Sensing Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Edge AI Sensing Devices Production (2020-2025)
 - 9.7.1 China Edge AI Sensing Devices Production Growth Rate (2020-2025)
 - 9.7.2 China Edge AI Sensing Devices Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Sony Semiconductor Solutions Group
 - 10.1.1 Sony Semiconductor Solutions Group Basic Information
 - 10.1.2 Sony Semiconductor Solutions Group Edge AI Sensing Devices Product

Overview

10.1.3 Sony Semiconductor Solutions Group Edge AI Sensing Devices Product Market Performance

10.1.4 Sony Semiconductor Solutions Group Business Overview

10.1.5 Sony Semiconductor Solutions Group SWOT Analysis

10.1.6 Sony Semiconductor Solutions Group Recent Developments

10.2 Samsung

10.2.1 Samsung Basic Information

10.2.2 Samsung Edge AI Sensing Devices Product Overview

10.2.3 Samsung Edge AI Sensing Devices Product Market Performance

10.2.4 Samsung Business Overview

10.2.5 Samsung SWOT Analysis

10.2.6 Samsung Recent Developments

10.3 STMicroelectronics

10.3.1 STMicroelectronics Basic Information

10.3.2 STMicroelectronics Edge AI Sensing Devices Product Overview

10.3.3 STMicroelectronics Edge AI Sensing Devices Product Market Performance

10.3.4 STMicroelectronics Business Overview

10.3.5 STMicroelectronics SWOT Analysis

10.3.6 STMicroelectronics Recent Developments

10.4 Infineon

10.4.1 Infineon Basic Information

10.4.2 Infineon Edge AI Sensing Devices Product Overview

10.4.3 Infineon Edge AI Sensing Devices Product Market Performance

10.4.4 Infineon Business Overview

10.4.5 Infineon Recent Developments

10.5 Texas Instruments

10.5.1 Texas Instruments Basic Information

10.5.2 Texas Instruments Edge AI Sensing Devices Product Overview

10.5.3 Texas Instruments Edge AI Sensing Devices Product Market Performance

10.5.4 Texas Instruments Business Overview

10.5.5 Texas Instruments Recent Developments

10.6 Hikvision

10.6.1 Hikvision Basic Information

10.6.2 Hikvision Edge AI Sensing Devices Product Overview

10.6.3 Hikvision Edge AI Sensing Devices Product Market Performance

10.6.4 Hikvision Business Overview

10.6.5 Hikvision Recent Developments

10.7 SenseTime

- 10.7.1 SenseTime Basic Information
- 10.7.2 SenseTime Edge AI Sensing Devices Product Overview
- 10.7.3 SenseTime Edge AI Sensing Devices Product Market Performance
- 10.7.4 SenseTime Business Overview
- 10.7.5 SenseTime Recent Developments
- 10.8 NVIDIA
 - 10.8.1 NVIDIA Basic Information
 - 10.8.2 NVIDIA Edge AI Sensing Devices Product Overview
 - 10.8.3 NVIDIA Edge AI Sensing Devices Product Market Performance
 - 10.8.4 NVIDIA Business Overview
 - 10.8.5 NVIDIA Recent Developments
- 10.9 Bosch Sensortec
 - 10.9.1 Bosch Sensortec Basic Information
 - 10.9.2 Bosch Sensortec Edge AI Sensing Devices Product Overview
 - 10.9.3 Bosch Sensortec Edge AI Sensing Devices Product Market Performance
 - 10.9.4 Bosch Sensortec Business Overview
 - 10.9.5 Bosch Sensortec Recent Developments
- 10.10 Intel
 - 10.10.1 Intel Basic Information
 - 10.10.2 Intel Edge AI Sensing Devices Product Overview
 - 10.10.3 Intel Edge AI Sensing Devices Product Market Performance
 - 10.10.4 Intel Business Overview
 - 10.10.5 Intel Recent Developments
- 10.11 Omron
 - 10.11.1 Omron Basic Information
 - 10.11.2 Omron Edge AI Sensing Devices Product Overview
 - 10.11.3 Omron Edge AI Sensing Devices Product Market Performance
 - 10.11.4 Omron Business Overview
 - 10.11.5 Omron Recent Developments
- 10.12 Qualcomm
 - 10.12.1 Qualcomm Basic Information
 - 10.12.2 Qualcomm Edge AI Sensing Devices Product Overview
 - 10.12.3 Qualcomm Edge AI Sensing Devices Product Market Performance
 - 10.12.4 Qualcomm Business Overview
 - 10.12.5 Qualcomm Recent Developments

11 EDGE AI SENSING DEVICES MARKET FORECAST BY REGION

11.1 Global Edge AI Sensing Devices Market Size Forecast

11.2 Global Edge AI Sensing Devices Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Edge AI Sensing Devices Market Size Forecast by Country

11.2.3 Asia Pacific Edge AI Sensing Devices Market Size Forecast by Region

11.2.4 South America Edge AI Sensing Devices Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Edge AI Sensing Devices by Country

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

12.1 Global Edge AI Sensing Devices Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Edge AI Sensing Devices by Type (2026-2035)

12.1.2 Global Edge AI Sensing Devices Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Edge AI Sensing Devices by Type (2026-2035)

12.2 Global Edge AI Sensing Devices Market Forecast by Application (2026-2035)

12.2.1 Global Edge AI Sensing Devices Sales (K Units) Forecast by Application

12.2.2 Global Edge AI Sensing Devices 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 Sensing Devices Market Size by Type (M USD)
- Table 4. Global Edge AI Sensing Devices Market Size by Application
- Table 5. Edge AI Sensing Devices Market Size Comparison by Region (M USD)
- Table 6. Global Edge AI Sensing Devices Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Edge AI Sensing Devices Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Edge AI Sensing Devices Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Edge AI Sensing Devices Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Edge AI Sensing Devices as of 2025)
- Table 11. Global Market Edge AI Sensing Devices 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 Sensing Devices 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 Sensing Devices 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 Sensing Devices Sales by Type (K Units)
- Table 27. Global Edge AI Sensing Devices Market Size by Type (M USD)

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

(2020-2025) & (M USD)

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

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

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

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

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

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

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

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

Table 62. Sony Semiconductor Solutions Group Basic Information

Table 63. Sony Semiconductor Solutions Group Edge AI Sensing Devices Product Overview

Table 64. Sony Semiconductor Solutions Group Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Sony Semiconductor Solutions Group Business Overview

Table 66. Sony Semiconductor Solutions Group SWOT Analysis

Table 67. Sony Semiconductor Solutions Group Recent Developments

Table 68. Samsung Basic Information

Table 69. Samsung Edge AI Sensing Devices Product Overview

Table 70. Samsung Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Samsung Business Overview

Table 72. Samsung SWOT Analysis

Table 73. Samsung Recent Developments

Table 74. STMicroelectronics Basic Information

Table 75. STMicroelectronics Edge AI Sensing Devices Product Overview

Table 76. STMicroelectronics Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. STMicroelectronics Business Overview

Table 78. STMicroelectronics SWOT Analysis

Table 79. STMicroelectronics Recent Developments

Table 80. Infineon Basic Information

- Table 81. Infineon Edge AI Sensing Devices Product Overview
- Table 82. Infineon Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Infineon Business Overview
- Table 84. Infineon Recent Developments
- Table 85. Texas Instruments Basic Information
- Table 86. Texas Instruments Edge AI Sensing Devices Product Overview
- Table 87. Texas Instruments Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Texas Instruments Business Overview
- Table 89. Texas Instruments Recent Developments
- Table 90. Hikvision Basic Information
- Table 91. Hikvision Edge AI Sensing Devices Product Overview
- Table 92. Hikvision Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Hikvision Business Overview
- Table 94. Hikvision Recent Developments
- Table 95. SenseTime Basic Information
- Table 96. SenseTime Edge AI Sensing Devices Product Overview
- Table 97. SenseTime Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. SenseTime Business Overview
- Table 99. SenseTime Recent Developments
- Table 100. NVIDIA Basic Information
- Table 101. NVIDIA Edge AI Sensing Devices Product Overview
- Table 102. NVIDIA Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. NVIDIA Business Overview
- Table 104. NVIDIA Recent Developments
- Table 105. Bosch Sensortec Basic Information
- Table 106. Bosch Sensortec Edge AI Sensing Devices Product Overview
- Table 107. Bosch Sensortec Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Bosch Sensortec Business Overview
- Table 109. Bosch Sensortec Recent Developments
- Table 110. Intel Basic Information
- Table 111. Intel Edge AI Sensing Devices Product Overview
- Table 112. Intel Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Intel Business Overview

Table 114. Intel Recent Developments

Table 115. Omron Basic Information

Table 116. Omron Edge AI Sensing Devices Product Overview

Table 117. Omron Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. Omron Business Overview

Table 119. Omron Recent Developments

Table 120. Qualcomm Basic Information

Table 121. Qualcomm Edge AI Sensing Devices Product Overview

Table 122. Qualcomm Edge AI Sensing Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 123. Qualcomm Business Overview

Table 124. Qualcomm Recent Developments

Table 125. Global Edge AI Sensing Devices Sales Forecast by Region (2026-2035) & (K Units)

Table 126. Global Edge AI Sensing Devices Market Size Forecast by Region (2026-2035) & (M USD)

Table 127. North America Edge AI Sensing Devices Sales Forecast by Country (2026-2035) & (K Units)

Table 128. North America Edge AI Sensing Devices Market Size Forecast by Country (2026-2035) & (M USD)

Table 129. Europe Edge AI Sensing Devices Sales Forecast by Country (2026-2035) & (K Units)

Table 130. Europe Edge AI Sensing Devices Market Size Forecast by Country (2026-2035) & (M USD)

Table 131. Asia Pacific Edge AI Sensing Devices Sales Forecast by Region (2026-2035) & (K Units)

Table 132. Asia Pacific Edge AI Sensing Devices Market Size Forecast by Region (2026-2035) & (M USD)

Table 133. South America Edge AI Sensing Devices Sales Forecast by Country (2026-2035) & (K Units)

Table 134. South America Edge AI Sensing Devices Market Size Forecast by Country (2026-2035) & (M USD)

Table 135. Middle East and Africa Edge AI Sensing Devices Sales Forecast by Country (2026-2035) & (Units)

Table 136. Middle East and Africa Edge AI Sensing Devices Market Size Forecast by Country (2026-2035) & (M USD)

Table 137. Global Edge AI Sensing Devices Sales Forecast by Type (2026-2035) & (K

Units)

Table 138. Global Edge AI Sensing Devices Market Size Forecast by Type (2026-2035) & (M USD)

Table 139. Global Edge AI Sensing Devices Price Forecast by Type (2026-2035) & (USD/Unit)

Table 140. Global Edge AI Sensing Devices Sales (K Units) Forecast by Application (2026-2035)

Table 141. Global Edge AI Sensing Devices Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Edge AI Sensing Devices
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Edge AI Sensing Devices Market Size (M USD), 2025-2035
- Figure 5. Global Edge AI Sensing Devices Market Size (M USD) (2020-2035)
- Figure 6. Global Edge AI Sensing Devices 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 Sensing Devices Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Edge AI Sensing Devices Product Life Cycle
- Figure 13. Edge AI Sensing Devices Sales Share by Manufacturers in 2025
- Figure 14. Global Edge AI Sensing Devices Revenue Share by Manufacturers in 2025
- Figure 15. Edge AI Sensing Devices Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Edge AI Sensing Devices Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Edge AI Sensing Devices Revenue in 2025
- Figure 18. Industry Chain Map of Edge AI Sensing Devices
- Figure 19. Global Edge AI Sensing Devices Market PEST Analysis
- Figure 20. Global Edge AI Sensing Devices 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 Sensing Devices Market Share by Type
- Figure 27. Sales Market Share of Edge AI Sensing Devices by Type (2020-2025)
- Figure 28. Sales Market Share of Edge AI Sensing Devices by Type in 2025
- Figure 29. Market Share of Edge AI Sensing Devices by Type (2020-2025)
- Figure 30. Market Share of Edge AI Sensing Devices by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Edge AI Sensing Devices Market Share by Application

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

Figure 34. Global Edge AI Sensing Devices Sales Market Share by Application in 2025

Figure 35. Global Edge AI Sensing Devices Market Share by Application (2020-2025)

Figure 36. Global Edge AI Sensing Devices Market Share by Application in 2025

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

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

Figure 39. Global Edge AI Sensing Devices Market Size by Region (2020-2025)

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

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

Figure 42. North America Edge AI Sensing Devices Sales Market Share by Country in 2024

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

Figure 44. North America Edge AI Sensing Devices Market Size by Country in 2024

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

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

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

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

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

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

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

Figure 52. Europe Edge AI Sensing Devices Sales Market Share by Country in 2024

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

Figure 54. Europe Edge AI Sensing Devices Market Size by Country in 2024

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

Figure 56. Germany Edge AI Sensing Devices Market Size and Growth Rate

(2020-2025) & (M USD)

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

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

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

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

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

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

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

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

Figure 65. Asia Pacific Edge AI Sensing Devices Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Edge AI Sensing Devices Sales Market Share by Region in 2024

Figure 67. Asia Pacific Edge AI Sensing Devices Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

Figure 77. Southeast Asia Edge AI Sensing Devices Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 78. South America Edge AI Sensing Devices Sales and Growth Rate (K Units)

Figure 79. South America Edge AI Sensing Devices Sales Market Share by Country in 2024

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

Figure 81. South America Edge AI Sensing Devices Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

Figure 91. Middle East and Africa Edge AI Sensing Devices Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 111. Global Edge AI Sensing Devices Sales Forecast by Application (2026-2035)

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

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