

Global Edge AI Market Size Study & Forecast, by Component and End-use Industry and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GB094827E64CEN.html>

Date: June 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GB094827E64CEN

Abstracts

The Global Edge AI Market is valued at approximately USD 20.78 billion in 2024 and is projected to grow at a promising CAGR of 21.70% during the forecast period from 2025 to 2035. Edge AI, the powerful convergence of artificial intelligence and edge computing, allows data processing directly on devices without needing cloud interaction, thereby reducing latency, enhancing security, and optimizing bandwidth. As businesses pivot toward real-time intelligence, the demand for Edge AI is gaining explosive traction across industries ranging from autonomous vehicles to smart consumer electronics and smart infrastructure. The market is being underpinned by the increasing proliferation of IoT devices, demand for faster data insights, and the strategic urgency for decentralized computing frameworks.

An uptick in demand for low-latency computing, real-time analytics, and autonomous decision-making has prompted organizations to deploy AI at the edge rather than depending solely on centralized cloud platforms. This paradigm shift is being strongly reinforced by advancements in dedicated AI chipsets, compact neural processing units, and edge-ready software development kits. The growing application of Edge AI in consumer electronics—like smart cameras, voice assistants, and wearable devices—as well as in automotive systems such as ADAS, is reshaping how end-users interact with intelligent technology. Meanwhile, cities worldwide are leveraging Edge AI to power traffic monitoring systems, energy management platforms, and safety surveillance, further fortifying the smart city vision.

Geographically, North America held the dominant position in 2025, benefiting from the region's early adoption of 5G, large-scale integration of IoT, and robust R&D investments by key tech giants. Europe is following closely, with increasing deployment

of smart transportation and stringent data governance policies that drive localized AI processing. The Asia Pacific region, however, is projected to exhibit the fastest growth rate during the forecast period, fueled by rapid industrial automation, expanding electronics manufacturing in China, South Korea, and Japan, and strong governmental backing for AI initiatives. Latin America and the Middle East & Africa are steadily progressing with increasing smart infrastructure projects and regional partnerships aimed at digital transformation.

Major market players included in this report are:

NVIDIA Corporation

Intel Corporation

Qualcomm Technologies, Inc.

IBM Corporation

Microsoft Corporation

Google LLC

Amazon Web Services, Inc.

Arm Holdings plc

Huawei Technologies Co., Ltd.

Samsung Electronics Co., Ltd.

Siemens AG

ADLINK Technology Inc.

Hewlett Packard Enterprise

Micron Technology, Inc.

Mythic Inc.

Global Edge AI Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Component:

Hardware

Software

Services

By End-use Industry:

Consumer Electronics

Smart Cities

Automotive

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market

approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL EDGE AI MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top-Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumptions
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL EDGE AI MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping the Global Edge AI Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Rising Demand for Low-Latency Processing
 - 3.2.2. Advancements in AI-Optimized Chipsets
 - 3.2.3. Proliferation of IoT and 5G Networks
- 3.3. Restraints
 - 3.3.1. Data Privacy and Security Concerns
 - 3.3.2. High Integration and Deployment Costs
- 3.4. Opportunities
 - 3.4.1. Expansion into Smart Cities and Infrastructure
 - 3.4.2. Emergence of New Edge-Analytics Services

CHAPTER 4. GLOBAL EDGE AI INDUSTRY ANALYSIS

- 4.1. Porter's Five Forces Model
 - 4.1.1. Bargaining Power of Buyers
 - 4.1.2. Bargaining Power of Suppliers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's Five Forces Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economic
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis and Trends 2025
- 4.8. Analyst Recommendations & Conclusion

CHAPTER 5. GLOBAL EDGE AI MARKET SIZE & FORECASTS BY COMPONENT 2025–2035

- 5.1. Market Overview
- 5.2. Global Edge AI Market Performance – Potential Analysis (2025)
- 5.3. Hardware
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.3.2. Market Size Analysis, by Region, 2025–2035
- 5.4. Software
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.4.2. Market Size Analysis, by Region, 2025–2035
- 5.5. Services
 - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL EDGE AI MARKET SIZE & FORECASTS BY END-USE INDUSTRY 2025–2035

- 6.1. Market Overview
- 6.2. Global Edge AI Market Performance – Potential Analysis (2025)
- 6.3. Consumer Electronics
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.3.2. Market Size Analysis, by Region, 2025–2035
- 6.4. Smart Cities
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.4.2. Market Size Analysis, by Region, 2025–2035
- 6.5. Automotive
 - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 7. GLOBAL EDGE AI MARKET SIZE & FORECASTS BY REGION 2025–2035

- 7.1. Global Edge AI Market, Regional Market Snapshot
- 7.2. Top Leading & Emerging Countries
- 7.3. North America Edge AI Market
 - 7.3.1. U.S. Edge AI Market
 - 7.3.1.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.3.1.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.3.2. Canada Edge AI Market
 - 7.3.2.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.3.2.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.4. Europe Edge AI Market
 - 7.4.1. UK Edge AI Market
 - 7.4.1.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.4.1.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.4.2. Germany Edge AI Market
 - 7.4.2.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.4.2.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.4.3. France Edge AI Market
 - 7.4.3.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.4.3.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.4.4. Spain Edge AI Market
 - 7.4.4.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.4.4.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.4.5. Italy Edge AI Market

- 7.4.5.1. Component Breakdown Size & Forecasts, 2025–2035
- 7.4.5.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.4.6. Rest of Europe Edge AI Market
 - 7.4.6.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.4.6.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.5. Asia Pacific Edge AI Market
 - 7.5.1. China Edge AI Market
 - 7.5.1.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.1.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.5.2. India Edge AI Market
 - 7.5.2.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.2.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.5.3. Japan Edge AI Market
 - 7.5.3.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.3.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.5.4. Australia Edge AI Market
 - 7.5.4.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.4.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.5.5. South Korea Edge AI Market
 - 7.5.5.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.5.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.5.6. Rest of Asia Pacific Edge AI Market
 - 7.5.6.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.5.6.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.6. Latin America Edge AI Market
 - 7.6.1. Brazil Edge AI Market
 - 7.6.1.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.6.1.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.6.2. Mexico Edge AI Market
 - 7.6.2.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.6.2.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.7. Middle East & Africa Edge AI Market
 - 7.7.1. UAE Edge AI Market
 - 7.7.1.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.7.1.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.7.2. Saudi Arabia Edge AI Market
 - 7.7.2.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.7.2.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
 - 7.7.3. South Africa Edge AI Market

- 7.7.3.1. Component Breakdown Size & Forecasts, 2025–2035
- 7.7.3.2. End-use Industry Breakdown Size & Forecasts, 2025–2035
- 7.7.4. Rest of Middle East & Africa Edge AI Market
 - 7.7.4.1. Component Breakdown Size & Forecasts, 2025–2035
 - 7.7.4.2. End-use Industry Breakdown Size & Forecasts, 2025–2035

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Top Market Strategies
- 8.2. NVIDIA Corporation
 - 8.2.1. Company Overview
 - 8.2.2. Key Executives
 - 8.2.3. Company Snapshot
 - 8.2.4. Financial Performance (Subject to Data Availability)
 - 8.2.5. Product/Services Portfolio
 - 8.2.6. Recent Development
 - 8.2.7. Market Strategies
 - 8.2.8. SWOT Analysis
- 8.3. Intel Corporation
- 8.4. Qualcomm Technologies, Inc.
- 8.5. IBM Corporation
- 8.6. Microsoft Corporation
- 8.7. Google LLC
- 8.8. Amazon Web Services, Inc.
- 8.9. Arm Holdings plc
- 8.10. Huawei Technologies Co., Ltd.
- 8.11. Samsung Electronics Co., Ltd.
- 8.12. Siemens AG
- 8.13. ADLINK Technology Inc.
- 8.14. Hewlett Packard Enterprise
- 8.15. Micron Technology, Inc.
- 8.16. Mythic Inc.

List Of Tables

LIST OF TABLES

- Table 1. Global Edge AI Market, Report Scope
- Table 2. Global Edge AI Market Estimates & Forecasts By Region 2024–2035
- Table 3. Global Edge AI Market Estimates & Forecasts By End-use Industry 2024–2035
- Table 4. Global Edge AI Market Estimates & Forecasts By Component 2024–2035
- Table 5. U.S. Edge AI Market Estimates & Forecasts, 2024–2035
- Table 6. Canada Edge AI Market Estimates & Forecasts, 2024–2035
- Table 7. UK Edge AI Market Estimates & Forecasts, 2024–2035
- Table 8. Germany Edge AI Market Estimates & Forecasts, 2024–2035
- Table 9. France Edge AI Market Estimates & Forecasts, 2024–2035
- Table 10. Spain Edge AI Market Estimates & Forecasts, 2024–2035
- Table 11. Italy Edge AI Market Estimates & Forecasts, 2024–2035
- Table 12. Rest of Europe Edge AI Market Estimates & Forecasts, 2024–2035
- Table 13. China Edge AI Market Estimates & Forecasts, 2024–2035
- Table 14. India Edge AI Market Estimates & Forecasts, 2024–2035
- Table 15. Japan Edge AI Market Estimates & Forecasts, 2024–2035
- Table 16. Australia Edge AI Market Estimates & Forecasts, 2024–2035
- Table 17. South Korea Edge AI Market Estimates & Forecasts, 2024–2035

List Of Figures

LIST OF FIGURES

- Fig 1. Global Edge AI Market, Research Methodology
- Fig 2. Global Edge AI Market, Market Estimation Techniques
- Fig 3. Global Edge AI Market Size Estimates & Forecast Methods
- Fig 4. Global Edge AI Market, Key Trends 2025
- Fig 5. Global Edge AI Market, Growth Prospects 2024–2035
- Fig 6. Global Edge AI Market, Porter's Five Forces Model
- Fig 7. Global Edge AI Market, PESTEL Analysis
- Fig 8. Global Edge AI Market, Value Chain Analysis
- Fig 9. Edge AI Market By End-use Industry, 2025 & 2035
- Fig 10. Edge AI Market By Component, 2025 & 2035
- Fig 11. Edge AI Market By Region, 2025 & 2035
- Fig 12. Edge AI Market By Component, 2025 & 2035
- Fig 13. Edge AI Market By End-use Industry, 2025 & 2035
- Fig 14. North America Edge AI Market, 2025 & 2035
- Fig 15. Europe Edge AI Market, 2025 & 2035
- Fig 16. Asia Pacific Edge AI Market, 2025 & 2035
- Fig 17. Latin America Edge AI Market, 2025 & 2035
- Fig 18. Middle East & Africa Edge AI Market, 2025 & 2035
- Fig 19. Global Edge AI Market, Company Market Share Analysis (2025)

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