

Edge Artificial Intelligence (AI) Hardware Market Report: Trends, Forecast and Competitive Analysis to 2030

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Abstracts

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Edge Artificial Intelligence (AI) Hardware Trends and Forecast

The future of the global edge artificial intelligence (AI) hardware market looks promising with opportunities in the consumer electronic, smartphone, wearable, entertainment robot, smart home, smart speaker, smart camera, and domestic robot markets. The global edge artificial intelligence (AI) hardware market is expected to reach an estimated \$2.4 billion by 2030 with a CAGR of 18.7% from 2024 to 2030. The major drivers for this market are increase in businesses' understanding of the use of artificial intelligence (AI) in their operations, rising edge AI devices used by companies worldwide to reduce operating expenses in certain situations, as well as, increase in real-time low latency on edge devices.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below.

Edge Artificial Intelligence (AI) Hardware by Segment

The study includes a forecast for the global edge artificial intelligence (AI) hardware by power consumption, processor, device, end use, and region.

Edge Artificial Intelligence (AI) Hardware Market by Power Consumption [Shipment Analysis by Value from 2018 to 2030]:

Less Than 1W

1-3W

3-5W

5-10W

More Than 10W

Edge Artificial Intelligence (AI) Hardware Market by Processor [Shipment Analysis by Value from 2018 to 2030]:

CPU

GPU

ASIC

Others

Edge Artificial Intelligence (AI) Hardware Market by Device [Shipment Analysis by Value from 2018 to 2030]:

Smartphones

Surveillance Cameras

Robots

Wearables

Edge Servers

Smart Speakers

Automotive

Smart Mirrors

Edge Artificial Intelligence (AI) Hardware Market by End Use [Shipment Analysis by Value from 2018 to 2030]:

Consumer Electronics

Smartphones

Wearables

Entertainment Robots

Smart Home

Smart Speakers

Smart Cameras

Domestic Robots

Others

Edge Artificial Intelligence (AI) Hardware Market by Region [Shipment Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

List of Edge Artificial Intelligence (AI) Hardware Companies

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. With these strategies edge artificial intelligence (AI) hardware companies cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the edge artificial intelligence (AI) hardware companies profiled in this report include-

Cisco

IBM

Intel

SAMSUNG

Google

Microsoft

Micron Technology

Edge Artificial Intelligence (AI) Hardware Market Insights

Lucintel forecasts that 1–3W power consumption will remain the largest segment over the forecast period.

Within this market, smartphones will remain the largest segment.

North America will remain the largest region over the forecast period due to notable AI technology suppliers are present in the area, as is the high adoption rate of AI-based servers.

Features of the Global Edge Artificial Intelligence (AI) Hardware Market

Market Size Estimates: Edge artificial intelligence (AI) hardware market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: Edge artificial intelligence (AI) hardware market size by power consumption, processor, device, end use, and region in terms of value (\$B).

Regional Analysis: Edge artificial intelligence (AI) hardware market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different power consumption, processor, device, end use, and regions for the edge artificial intelligence (AI) hardware market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the edge artificial intelligence (AI) hardware market.

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

FAQ

Q1. What is the edge artificial intelligence (AI) hardware market size?

Answer: The global edge artificial intelligence (AI) hardware market is expected to reach an estimated \$2.4 billion by 2030.

Q2. What is the growth forecast for edge artificial intelligence (AI) hardware market?

Answer: The global edge artificial intelligence (AI) hardware market is expected to grow with a CAGR of 18.7% from 2024 to 2030.

Q3. What are the major drivers influencing the growth of the edge artificial intelligence (AI) hardware market?

Answer: The major drivers for this market are increase in businesses' understanding of the use of artificial intelligence (AI) in their operations, rising edge AI devices used by companies worldwide to reduce operating expenses in certain situations, as well as, increase in real-time low latency on edge devices.

Q4. What are the major segments for edge artificial intelligence (AI) hardware market?

Answer: The future of the global edge artificial intelligence (AI) hardware market looks promising with opportunities in the consumer electronic, smartphone, wearable, entertainment robot, smart home, smart speaker, smart camera, and domestic robot markets.

Q5. Who are the key edge artificial intelligence (AI) hardware market companies?

Answer: Some of the key edge artificial intelligence (AI) hardware companies are as follows:

Cisco

IBM

Intel

SAMSUNG

Google

Microsoft

Micron Technology

Q6. Which edge artificial intelligence (AI) hardware market segment will be the largest in future?

Answer: Lucintel forecasts that 1–3W power consumption will remain the largest segment over the forecast period.

Q7. In edge artificial intelligence (AI) hardware market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest region over the forecast period due to notable AI technology suppliers are present in the area, as is the high adoption rate of AI-based servers.

Q.8 Do we receive customization in this report?

Answer: Yes, Lucintel provides 10% customization without any additional cost.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the edge artificial intelligence (AI) hardware market by power consumption (less than 1W, 1-3W, 3-5W, 5-10W, and more than 10w), processor (CPU, GPU, ASIC, and others), device (smartphones, surveillance cameras, robots, wearables, edge servers, smart speakers, automotive, and smart mirrors), end use (consumer electronics, smartphones, wearables, entertainment robots, smart home, smart speakers, smart cameras, domestic robots, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been

on the industry?

For any questions related to Edge Artificial Intelligence (AI) Hardware Market, Edge Artificial Intelligence (AI) Hardware Market Size, Edge Artificial Intelligence (AI) Hardware Market Growth, Edge Artificial Intelligence (AI) Hardware Market Analysis, Edge Artificial Intelligence (AI) Hardware Market Report, Edge Artificial Intelligence (AI) Hardware Market Share, Edge Artificial Intelligence (AI) Hardware Market Trends, Edge Artificial Intelligence (AI) Hardware Market Forecast, Edge Artificial Intelligence (AI) Hardware Companies, write Lucintel analyst at email: helpdesk@lucintel.com. We will be glad to get back to you soon.

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