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Hardware Artificial Intelligence Market: Trends, Opportunities and Competitive Analysis [2023-2028]

https://marketpublishers.com/r/HC5CE8E6B476EN.html

Date: May 2023
Pages: 150
Price: US$ 4,850.00 (Single User License)
ID: HC5CE8E6B476EN

Abstracts

Hardware Artificial Intelligence Market Trends and Forecast

The future of the global hardware artificial intelligence market looks promising with opportunities in the banking, financial services and insurance (BFSI), IT and telecommunication, healthcare, media and entertainment, aerospace and defense, manufacturing, automotive, agriculture, retail, energy and utility, and government and public service end use industries. The global hardware artificial intelligence market is expected to reach an estimated $12.3 billion by 2028 with a CAGR of 20.7% from 2023 to 2028. The major drivers for this market are rapidly increasing number of internet users, rising demand for programmable switches and interconnection so as to enhance the speed, and growing adoption of AI and robotics in the end-use industries, such as IT, automotive, healthcare, and manufacturing.

Hardware Artificial Intelligence Market

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

Hardware Artificial Intelligence Market by Segments

Hardware Artificial Intelligence Market by Segment

The study includes trends and forecast for the global hardware artificial intelligence market by type, product, technology, end user, and region, as follows:

Hardware Artificial Intelligence Market by Type [Value ($B) Shipment Analysis from

2017 to 2028]:

Processor

Network

Storage

Hardware Artificial Intelligence Market by Product [Value ($B) Shipment Analysis from 2017 to 2028]:

CPU

GPU

ASIC

FPGA

Memory

Modules

Hardware Artificial Intelligence Market by Technology [Value ($B) Shipment Analysis from 2017 to 2028]:

Machine Learning

Supervised Learning

Un-supervised Learning

Deep Learning

Others

Computer Vision

Others

Hardware Artificial Intelligence Market by End Use Industry [Value ($B) Shipment Analysis from 2017 to 2028]:

Banking, Financial Services and Insurance (BFSI)

IT and Telecommunication

Healthcare

Media and Entertainment

Aerospace and Defense

Manufacturing

Automotive

Agriculture

Retail

Energy and Utilities

Government and Public Services

Hardware Artificial Intelligence Market by Region [Value ($B) Shipment Analysis from 2017 to 2028]:

North America

Europe

Asia Pacific

The Rest of the World

List of Hardware Artificial Intelligence 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, hardware artificial intelligence companies in the global automotive market cater to increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the hardware artificial intelligence companies in the global automotive market profiled in this report include-

Intel Corporation

Dell Technologies

IBM

Hewlett Packard Enterprise

Rockwell Automation

Google

Microsoft

NVIDIA

Hardware Artificial Intelligence Market Insights

Lucintel forecasts that processor will remain the largest segment over the forecast period as it helps in machine learning that consists of deep learning, reinforcement learning supervised, and unsupervised learning.

Within this market, IT and telecommunication will remain the largest end use industry segment from 2023 to 2028 due to increasing adoption of artificial intelligence in the telecom sector as it helps in solving many complex problems associated with the telecommunication industry.

North America will remain the largest region during the forecast period due to increasing computer service industry and growing demand for continuous online learning, real-time data streaming, predictive analysis, and data modeling in countries like US and Canada.

Hardware Artificial Intelligence Market: Trends, Opportunities and Competitive Analysis [2023-2028]

Features of the Hardware Artificial Intelligence Market

Market Size Estimates: Hardware artificial intelligence market size estimation in terms of value ($B)

Trend and Forecast Analysis: Market trends (2017-2022) and forecast (2023-2028) by various segments and regions.

Segmentation Analysis: Hardware artificial intelligence market size by various segments, such as by type, product, technology, end user, and region

Regional Analysis: Hardware artificial intelligence market breakdown by North America, Europe, Asia Pacific, and the Rest of the World.

Growth Opportunities: Analysis on growth opportunities in different by type, product, technology, end user, and regions for the hardware artificial intelligence market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the hardware artificial intelligence market.

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

FAQ

Q1. What is the hardware artificial intelligence market size?

Answer: The global hardware artificial intelligence market is expected to reach an estimated $12.3 billion by 2028.

Q2. What is the growth forecast for hardware artificial intelligence market?

Answer: The global hardware artificial intelligence market is expected to grow with a CAGR of 20.7% from 2023 to 2028.

Q3. What are the major drivers influencing the growth of the hardware artificial intelligence market?

Answer: The major drivers for this market are rapidly increasing internet users, rising

demand for programmable switches and interconnection so as to enhance the speed and growing adoption of AI and robotics in the end-use industries, such as IT, automotive, healthcare, and manufacturing.

Q4. What are the major segments for hardware artificial intelligence market?

Answer: The future of the global hardware artificial intelligence market looks promising with opportunities in the banking, financial services and insurance (BFSI), IT and telecommunication, healthcare, media and entertainment, aerospace and defense, manufacturing, automotive, agriculture, retail, energy and utility, and government and public service markets.

Q5. Who are the key hardware artificial intelligence companies?

Answer: Some of the key hardware artificial intelligence companies are as follows:

Intel Corporation

Dell Technologies

IBM

Hewlett Packard Enterprise

Rockwell Automation

Google

Microsoft

NVIDIA

Q6. Which hardware artificial intelligence segment will be the largest in future?

Answer:Lucintel forecasts that processor will remain the largest segment over the forecast period as the high-speed computing processor enables machine learning that consists of deep learning, reinforcement learning supervised, and unsupervised learning, and increasing interests of people towards machine learning and computer vision helps to drive the companies to invest in the development of high-speed

computing processors.

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

Answer: North America will remain the largest region during the forecast period due to increasing computer service industry and growing demand for continuous online learning, real-time data streaming, predictive analysis, and data modeling in countries, like US and Canada.

Q8. 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 hardware artificial intelligence market by type (processor, network, and storage), product (CPU, GPU, ASIC, FPGA, memory, and modules), technology (machine learning [supervised learning, un-supervised learning, deep learning, and others], computer vision, and others), end use Industry (banking, financial services and insurance (BFSI), IT and telecommunication, healthcare, media and entertainment, aerospace and defense, manufacturing, automotive, agriculture, retail, energy and utilities, and government and public services), 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 did occur in the last five years and how did they impact the

industry?

For any questions related to hardware artificial intelligence market or related to hardware artificial intelligence companies, hardware artificial intelligence market size, hardware artificial intelligence market share, hardware artificial intelligence analysis, hardware artificial intelligence market growth, hardware artificial intelligence market research, write Lucintel analyst at email: helpdesk@lucintel.com we will be glad to get back to you soon.

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7.7 Microsoft
7.8 NVIDIA

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