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Artificial Intelligence Chip Market Report: Trends, Forecast and Competitive Analysis

https://marketpublishers.com/r/AA878913E1F5EN.html
Date: December 2022
Pages: 150
Price: US$ 4,850.00 (Single User License)
ID: AA878913E1F5EN

Abstracts

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Artificial Intelligence Chip Market Trends and Forecast

The future of the artificial intelligence chip market looks promising with opportunities in the media & advertising, BFSI (banking, financial services and insurance), IT & telecom, retail, manufacturing, healthcare, automotive & transportation, and cybersecurity end use industries. The global artificial intelligence chip market is expected to grow with a CAGR of 37% to 39% from 2023 to 2028. The major drivers for this market are the increasing adoption of artificial intelligence in various industry verticals, growing deployment of AI due to large and complex datasets, rising adoption of deep learning, and growing implementation of AI in improving consumer service, and reducing operational cost.

Emerging Trends in the Artificial Intelligence Chip Market

Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of quantum computing and increased usage of autonomous robotic at various industry verticals.

A more than 150-page report is developed to help in your business decisions. Sample figures with some insights are shown below. To learn the scope, benefits, companies researched and other details of the global artificial intelligence chip market report, please download the report brochure.

Artificial Intelligence Chip Market by Segments

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The study includes trends and forecast for the global artificial intelligence chip market by chip type, hardware, application, technology, end use industry, and region, as follows:

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

- GPU
- ASIC
- FPGA
- CPU
- Others

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

- Processor
- Memory
- Hardware

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

- Natural Language Processing
- Robotic Process Automation
- Computer Vision
- Network Security

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Others

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

System-on-Chip (SoC)

System-in-Package (SIP)

Multi-chip Module

Others

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

Media & Advertising

BFSI (Banking, Financial Services and Insurance)

IT & Telecom

Retail

Manufacturing

Healthcare

Automotive & Transportation

Cybersecurity

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

North America

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Europe

Asia Pacific

The Rest of the World

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

NVIDIA Corporation

Intel Corporation

Xilinx, Inc

Samsung Electronics Co., Ltd

Micron Technology, Inc

Qualcomm Technologies, Inc

IBM

Artificial Intelligence Chip Market Insights

Lucintel forecasts that memory will remain the highest growing hardware segment over the forecast period due to the growing development of high-bandwidth memory and huge deployed of AI applications in various end use industries, increasing challenges for storage of data administration, and a surge

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in exploration of high-bandwidth parallel file systems by start-ups.

Healthcare is expected to remain the largest end use industry segment due to a massive volume of data in medical applications, such as medical imaging, hospital management, patient care, precision medicine, and diagnostics, in which deployment of artificial intelligence has been accelerated. Also, the accuracy and efficient data management by AI has contributed to its growing demand in the healthcare segment.

North America will remain the largest region due to the enormous usage of AI based technology, increasing adoption of smart devices, and growing government investment for AI start-ups in the region.

Features of the Artificial Intelligence Chip Market

Market Size Estimates: Artificial intelligence chip 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: Artificial intelligence chip market size by various segments, such as chip type, hardware, application, technology, and end use industry

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

Growth Opportunities: Analysis on growth opportunities in different chip types, hardware, applications, technology, end use industries, and regions for the artificial intelligence chip market.

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

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

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FAQ

Q1. What is the artificial intelligence chip market size?

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

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

Answer: The global artificial intelligence chip market is expected to grow with a CAGR of 37% to 39% from 2023 to 2028.

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

Answer: The major drivers for this market are increasing adoption of artificial intelligence in various industry verticals, growing deployment of AI due to large and complex datasets, rising adoption of deep learning, and growing implementation of AI in improving consumer service, and reducing operational cost.

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

Answer: The future of the artificial intelligence chip market looks promising with opportunities in the media & advertising, BFSI (banking, financial services and insurance), IT & telecom, retail, manufacturing, healthcare, automotive & transportation, and cybersecurity end use industries.

Q5. What are the emerging trends in artificial intelligence chip market?

Answer: Emerging trends, which have a direct impact on the dynamics of the industry, include the emergence of quantum computing and increased usage of autonomous robotic at various industry verticals.

Q6. Who are the key artificial intelligence chip companies?

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

NVIDIA Corporation

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Xilinx, Inc

Samsung Electronics Co., Ltd

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IBM

Q7. Which artificial intelligence chip segment will be the largest in future?

Answer: Lucintel forecasts that memory will remain the highest growing hardware segment over the forecast period due to the growing development of high-bandwidth memory and a huge deployed of AI applications in various end use industries, increasing challenges for storage of data administration, and a surge in exploration of high-bandwidth parallel file systems by start-ups.

Q8. In artificial intelligence chip market, which region is expected to be the largest in next 5 years?

Answer: North America will remain the largest region due to the enormous usage of AI based technology, increasing adoption of smart devices, and growing government investment for AI start-ups in the region.

Q9. 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 artificial intelligence chip market by chip type (GPU, ASIC, FPGA, CPU and others), hardware (processor, memory, and network), application (natural language processing, robotic process automation, computer vision, network security and others), technology (system-on-chip (SoC), system-in-package (SIP), multi-chip module and others), end use

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industry (media & advertising, BFSI (banking, financial services and insurance), IT & telecom, retail, manufacturing, healthcare, automotive & transportation, and cybersecurity), 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 what has been the impact on the industry?

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

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