+44 20 8123 2220
info@marketpublishers.com

Artificial Intelligence Chip Market by Technology (GPU, ASIC, FPGA, and CPU) and Application (Media & Advertising, BFSI, IT & Telecom, Retail, Healthcare, Automotive & Transportation, and Others) - Global Opportunity Analysis and Industry Forecast, 2017-2023

https://marketpublishers.com/r/A39EA20BB9DEN.html
Date: November 2017
Pages: 130
Price: US$ 5,540.00 (Single User License)
ID: A39EA20BB9DEN

Abstracts

Artificial intelligence eliminates or minimizes the risk to human life in many applications. Majority of the major players in the IT industry are competing to develop artificial intelligence (AI) chips and applications.
As the amount of data is increasing, the need for more efficient systems to solve mathematical and computational problems becomes crucial. Further, the emergence of quantum computing and increase in implementation of AI chips in robotics drive the market growth to a considerable extent. The emergence of autonomous robotics?robots that develop and control themselves autonomously?presents a promising picture of the AI chip market.
Lack of skilled workforce is one of the major restraints in the AI chip market. Most of the tasks such as testing, bug fixing, cloud implementation, and others are taken over by AI chips; however, the delivery of such tasks lack essential skillsets.
The artificial intelligence chip market is segmented based on technology, application, and region. GPU, ASIC, FPGA, and CPU are the technologies included in the report. The applications considered are media & advertising, BFSI, IT & telecom, retail, healthcare, automotive & transportation, and others. North America, Europe, Asia-Pacific, and LAMEA are the regions analyzed in this report.
Key players profiled in the report include AMD (Advanced Micro Devices), Google Inc., Intel Corporation, NVIDIA, Baidu, Graphcore, Qualcomm, Adapteva, UC-Davis, and Mythic.

+44 20 8123 2220
info@marketpublishers.com

KEY BENEFITS FOR STAKEHOLDERS

This study includes the analytical depiction of the global artificial intelligence chip market along with current trends and future estimations to determine the imminent investment pockets.

The report presents information regarding key drivers, restraints, and opportunities.

The current market is quantitatively analyzed from 2016 to 2023 to highlight the financial competency of the industry.

Porter's Five Forces analysis illustrates the potency of the buyers and suppliers in the industry.

KEY MARKET SEGMENTS

BY TECHNOLOGY

GPU

ASIC

FPGA

CPU

BY APPLICATION

Media & Advertising

BFSI

IT & Telecom

Retail

- Healthcare
- Automotive & Transportation
- Others

BY REGION

- North America
  - U.S.
  - Canada
  - Mexico
- Europe
  - UK
  - Germany
  - France
  - Russia
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia

+44 20 8123 2220
info@marketpublishers.com

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

+44 20 8123 2220
info@marketpublishers.com

Contents

CHAPTER 1 INTRODUCTION

1.1. REPORT DESCRIPTION
1.2. KEY BENEFITS
1.3. RESEARCH METHODOLOGY
  1.3.1. Primary research
  1.3.2. Secondary research
  1.3.3. Analyst tools and models

CHAPTER 2 EXECUTIVE SUMMARY

2.1. CXO PERSPECTIVE

CHAPTER 3 MARKET OVERVIEW

3.1. MARKET DEFINITION AND SCOPE
3.2. KEY FINDINGS
  3.2.1. Top winning strategies
  3.2.2. Top investment pockets
  3.2.3. Top impacting factors
3.3. PORTERS FIVE FORCES
  3.3.1. Bargaining power of suppliers
  3.3.2. Bargaining power of buyers
  3.3.3. Threat of substitutes
  3.3.4. Threat of new entrants
  3.3.5. Competitive rivalry
3.4. MARKET SHARE ANALYSIS, 2016
3.5. MARKET DYNAMICS
  3.5.1. Drivers
    3.5.1.1. Increasing demand for smart homes & smart cities
    3.5.1.2. Increasing investments in AI startups
    3.5.1.3. Emergence of quantum computing
  3.5.2. Restraints
    3.5.2.1. Lack of skilled workforce
  3.5.3. Opportunity
    3.5.3.1. Increased adoption in developing regions
    3.5.3.2. Developing smarter robots

+44 20 8123 2220
info@marketpublishers.com

CHAPTER 4 ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY

4.1. OVERVIEW
4.2. GPU
  4.2.1. Key market trends, growth factors, and opportunities
  4.2.2. Market size and forecast
4.3. ASIC
  4.3.1. Key market trends, growth factors, and opportunities
  4.3.2. Market size and forecast
4.4. FPGA
  4.4.1. Key market trends, growth factors, and opportunities
  4.4.2. Market size and forecast
4.5. CPU
  4.5.1. Key market trends, growth factors, and opportunities
  4.5.2. Market size and forecast

CHAPTER 5 ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION

5.1. OVERVIEW
5.2. MEDIA & ADVERTISING
  5.2.1. Key market trends, key growth factors, and opportunities
  5.2.2. Market size and forecast
5.3. BFSI
  5.3.1. Key market trends, key growth factors, and opportunities
  5.3.2. Market size and forecast
5.4. IT & TELECOM
  5.4.1. Key market trends, key growth factors, and opportunities
  5.4.2. Market size and forecast
5.5. RETAIL
  5.5.1. Key market trends, key growth factors, and opportunities
  5.5.2. Market size and forecast
5.6. HEALTHCARE
  5.6.1. Key market trends, key growth factors, and opportunities
  5.6.2. Market size and forecast
5.7. AUTOMOTIVE & TRANSPORTATION
  5.7.1. Key market trends, key growth factors, and opportunities
  5.7.2. Market size and forecast
5.8. OTHERS

5.8.1. Key market trends, key growth factors, and opportunities
5.8.2. Market size and forecast

CHAPTER 6 ARTIFICIAL INTELLIGENCE CHIP MARKET, BY GEOGRAPHY

6.1. OVERVIEW
6.2. NORTH AMERICA
6.2.1. Key market trends, key growth factors, and opportunities
6.2.2. Market size and forecast, by technology
6.2.3. Market size and forecast, by application
6.2.4. Market size and forecast, by country
6.2.5. U.S.
6.2.5.1. Market size and forecast
6.2.6. Canada
6.2.6.1. Market size and forecast
6.2.7. Mexico
6.2.7.1. Market size and forecast
6.3. EUROPE
6.3.1. Key market trends, key growth factors, and opportunities
6.3.2. Market size and forecast, by technology
6.3.3. Market size and forecast, by application
6.3.4. Market size and forecast, by country
6.3.5. UK
6.3.6. Market size and forecast
6.3.7. Germany
6.3.8. Market size and forecast
6.3.9. France
6.3.10. Market size and forecast
6.3.11. Russia
6.3.12. Market size and forecast
6.3.13. Rest of Europe
6.3.14. Market size and forecast
6.4. ASIA-PACIFIC
6.4.1. Key market trends, key growth factors, and opportunities
6.4.2. Market size and forecast, by technology
6.4.3. Market size and forecast, by application
6.4.4. Market size and forecast, by country
6.4.5. China
6.4.5.1. Market size and forecast

6.4.6. Japan
6.4.6.1. Market size and forecast
6.4.7. India
6.4.7.1. Market size and forecast
6.4.8. Australia
6.4.8.1. Market size and forecast
6.4.9. Rest of Asia-Pacific
6.4.9.1. Market size and forecast
6.5. LAMEA
6.5.1. Key market trends, key growth factors, and opportunities
6.5.2. Market size and forecast, by technology
6.5.3. Market size and forecast, by application
6.5.4. Market size and forecast, by region
6.5.5. Latin America
6.5.5.1. Market size and forecast
6.5.6. Middle East
6.5.6.1. Market size and forecast
6.5.7. Africa
6.5.7.1. Market size and forecast

CHAPTER 7 COMPANY PROFILES

7.1. ADVANCED MICRO DEVICES, INC.
7.1.1. Company overview
7.1.2. Company snapshot
7.1.3. Operating business segments
7.1.4. Product portfolio
7.1.5. Business performance
7.1.6. Key strategic moves and developments
7.2. ALPHABET INC. (GOOGLE INC.)
7.2.1. Company overview
7.2.2. Company snapshot
7.2.3. Operating business segments
7.2.4. Product portfolio
7.2.5. Business performance
7.2.6. Key strategic moves and developments
7.3. INTEL CORPORATION
7.3.1. Company overview
7.3.2. Company snapshot

7.3.3. Operating business segments
7.3.4. Product portfolio
7.3.5. Business performance
7.3.6. Key strategic moves and developments
7.4. NVIDIA CORPORATION
7.4.1. Company overview
7.4.2. Company snapshot
7.4.3. Operating business segments
7.4.4. Product portfolio
7.4.5. Business performance
7.4.6. Key strategic moves and developments
7.5. BAIDU, INC.
7.5.1. Company overview
7.5.2. Company snapshot
7.5.3. Operating business segments
7.5.4. Product portfolio
7.5.5. Business performance
7.5.6. Key strategic moves and developments
7.6. GRAPHCORE LTD.
7.6.1. Company overview
7.6.2. Company snapshot
7.6.3. Operating business segments
7.6.4. Product portfolio
7.6.5. Key strategic moves and developments
7.7. QUALCOMM INCORPORATED
7.7.1. Company overview
7.7.2. Company snapshot
7.7.3. Operating business segments
7.7.4. Product portfolio
7.7.5. Business performance
7.7.6. Key strategic moves and developments
7.8. ADAPTEVA, INC.
7.8.1. Company overview
7.8.2. Company snapshot
7.8.3. Product portfolio
7.8.4. Key strategic moves and developments
7.9. UNIVERSITY OF CALIFORNIA SYSTEM (UNIVERSITY OF CALIFORNIA, DAVIS)
7.9.1. Company overview
7.9.2. Company snapshot

+44 20 8123 2220
info@marketpublishers.com

7.9.3. Operating business segments
7.9.4. Product portfolio
7.9.5. Business performance
7.10. MYTHIC, INC.
7.10.1. Company overview
7.10.2. Company snapshot
7.10.3. Product portfolio
7.10.4. Key strategic moves and developments

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

TABLE 1. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2016-2023 ($MILLION)
TABLE 2. GPU TECHNOLOGY MARKET, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 3. ASIC TECHNOLOGY MARKET, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 4. FPGA TECHNOLOGY MARKET, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 5. CPU TECHNOLOGY MARKET, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 6. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2016-2023 ($MILLION)
TABLE 7. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR MEDIA & ADVERTISING, BY GEOGRAPHY, 2016-2023 ($MILLION)
TABLE 8. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR BFSI, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 9. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR IT & TELECOM, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 10. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR RETAIL, BY GEOGRAPHY, 2016-2023 ($MILLION)
TABLE 11. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR HEALTHCARE, BY GEOGRAPHY, 2016-2023 ($MILLION)
TABLE 12. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR AUTOMOTIVE & TRANSPORTATION, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 13. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR OTHER APPLICATIONS, BY GEOGRAPHY, 2014-2023 ($MILLION)
TABLE 14. ARTIFICIAL INTELLIGENCE CHIP MARKET, BY GEOGRAPHY, 2016-2023 ($MILLION)
TABLE 15. NORTH AMERICA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2010-2023 ($MILLION)
TABLE 16. NORTH AMERICA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2016-2023 ($MILLION)
TABLE 17. NORTH AMERICA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY COUNTRY, 2016-2023 ($MILLION)
TABLE 18. EUROPE ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2014-2023 ($MILLION)
TABLE 19. EUROPE ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2014-2023 ($MILLION)
TABLE 20. EUROPE ARTIFICIAL INTELLIGENCE CHIP MARKET, BY COUNTRY,

2016-2023 ($MILLION)
TABLE 21. ASIA-PACIFIC ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2016-2023 ($MILLION)
TABLE 22. ASIA-PACIFIC ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2016-2023 ($MILLION)
TABLE 23. ASIA-PACIFIC ARTIFICIAL INTELLIGENCE CHIP MARKET, BY COUNTRY, 2016-2023 ($MILLION)
TABLE 24. LAMEA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2014-2023 ($MILLION)
TABLE 25. LAMEA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY APPLICATION, 2014-2023 ($MILLION)
TABLE 26. LAMEA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY REGION, 2016-2023 ($MILLION)
TABLE 27. AMD: COMPANY SNAPSHOT
TABLE 28. AMD: OPERATING SEGMENTS
TABLE 29. AMD: PRODUCT PORTFOLIO
TABLE 30. ALPHABET: COMPANY SNAPSHOT
TABLE 31. ALPHABET: OPERATING SEGMENTS
TABLE 32. ALPHABET: PRODUCT PORTFOLIO
TABLE 33. INTEL: COMPANY SNAPSHOT
TABLE 34. INTEL: OPERATING SEGMENTS
TABLE 35. INTEL: PRODUCT PORTFOLIO
TABLE 36. NVIDIA CORPORATION: COMPANY SNAPSHOT
TABLE 37. NVIDIA CORPORATION: OPERATING SEGMENTS
TABLE 1.1. NVIDIA CORPORATION: PRODUCT PORTFOLIO
TABLE 38. BAIDU: COMPANY SNAPSHOT
TABLE 39. BAIDU: OPERATING SEGMENTS
TABLE 40. BAIDU: PRODUCT PORTFOLIO
TABLE 41. GRAPHCORE: COMPANY SNAPSHOT
TABLE 42. GRAPHCORE: OPERATING SEGMENTS
TABLE 43. GRAPHCORE: PRODUCT PORTFOLIO
TABLE 44. QUALCOMM: COMPANY SNAPSHOT
TABLE 45. QUALCOMM: OPERATING SEGMENTS
TABLE 46. QUALCOMM: PRODUCT PORTFOLIO
TABLE 47. ADAPTEVA: COMPANY SNAPSHOT
TABLE 48. ADAPTEVA: PRODUCT PORTFOLIO
TABLE 49. UC: COMPANY SNAPSHOT
TABLE 50. MSCC: OPERATING SEGMENTS
TABLE 51. UC: PRODUCT PORTFOLIO

+44 20 8123 2220
info@marketpublishers.com

TABLE 52. MYTHIC: COMPANY SNAPSHOT
TABLE 53. MYTHIC: PRODUCT PORTFOLIO

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

FIGURE 1. ARTIFICIAL INTELLIGENCE CHIP MARKET SNAPSHOT
FIGURE 2. TOP WINNING STRATEGIES, 2015-2017 (%)
FIGURE 3. STRATEGIC RANKING OF ARTIFICIAL INTELLIGENCE CHIP COMPANIES, 2015-2017
FIGURE 4. TOP INVESTMENT POCKETS
FIGURE 5. TOP IMPACTING FACTORS (2016 - 2023)
FIGURE 6. MODERATE BARGAINING POWER OF SUPPLIERS
FIGURE 7. HIGH BARGAINING POWER OF BUYERS
FIGURE 8. LOW THREAT OF SUBSTITUTES
FIGURE 9. LOW THREAT OF NEW ENTRANTS
FIGURE 10. HIGH COMPETITIVE RIVALRY
FIGURE 11. MARKET SHARE ANALYSIS OF ARTIFICIAL INTELLIGENCE CHIP COMPANIES, 2016 (%)
FIGURE 12. GLOBAL ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY, 2015-2023 (%)
FIGURE 13. GLOBAL ARTIFICIAL INTELLIGENCE CHIP GPU TECHNOLOGY MARKET, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 14. GLOBAL ARTIFICIAL INTELLIGENCE CHIP ASIC TECHNOLOGY MARKET, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 15. GLOBAL ARTIFICIAL INTELLIGENCE CHIP FPGA TECHNOLOGY MARKET, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 16. GLOBAL ARTIFICIAL INTELLIGENCE CHIP CPU TECHNOLOGY MARKET, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 17. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR MEDIA & ADVERITISING, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 18. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR BFSI, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 19. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR IT & TELECOM, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 20. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR RETAIL, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 21. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR HEALTHCARE, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 22. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR AUTOMOTIVE & TRANSPORTATION, BY GEOGRAPHY, 2015-2023 (%)

+44 20 8123 2220
info@marketpublishers.com

FIGURE 23. ARTIFICIAL INTELLIGENCE CHIP MARKET FOR OTHER APPLICATIONS, BY GEOGRAPHY, 2015-2023 (%)
FIGURE 24. ARTIFICIAL INTELLIGENCE CHIP MARKET, BY GEOGRAPHY 2015-2023, (%)
FIGURE 25. NORTH AMERICA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY 2015-2023 (%)
FIGURE 26. EUROPE ARTIFICIAL INTELLIGENCE CHIP MARKET, BY COMPONENT 2015-2023 (%)
FIGURE 27. ASIA-PACIFIC ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY 2015-2023 (%)
FIGURE 28. LAMEA ARTIFICIAL INTELLIGENCE CHIP MARKET, BY TECHNOLOGY 2015-2023 (%)
FIGURE 29. AMD: NET SALES, 2014-2016 ($MILLION)
FIGURE 30. AMD: REVENUE SHARE BY SEGMENT, 2016 (%)
FIGURE 31. AMD: REVENUE SHARE BY GEOGRAPHY, 2016 (%)
FIGURE 32. ALPHABET: NET SALES, 2014-2016 ($MILLION)
FIGURE 33. ALPHABET: REVENUE BY PRODUCT, 2016 (%)
FIGURE 34. ALPHABET: REVENUE BY GEOGRAPHY, 2016 (%)
FIGURE 35. INTEL: NET SALES, 2014-2016 ($MILLION)
FIGURE 36. INTEL: REVENUE SHARE BY SEGMENT, 2016 (%)
FIGURE 37. INTEL: REVENUE SHARE BY GEOGRAPHY, 2016 (%)
FIGURE 38. NVIDIA: NET SALES, 2015-2017 ($MILLION)
FIGURE 39. NVIDIA: REVENUE SHARE BY SEGMENT, 2017 (%)
FIGURE 40. NVIDIA: REVENUE SHARE BY GEOGRAPHY, 2017 (%)
FIGURE 41. BAIDU: NET SALES, 2014-2016 ($MILLION)
FIGURE 42. BAIDU: REVENUE SHARE BY SEGMENT, 2016 (%)
FIGURE 43. QUALCOMM: NET SALES, 2015-2017 ($MILLION)
FIGURE 44. QUALCOMM: REVENUE SHARE BY SEGMENT, 2017 (%)
FIGURE 45. UC: NET SALES, 2015-2017 ($MILLION)
FIGURE 46. UC: REVENUE SHARE BY SEGMENT, 2017 (%)

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Artificial Intelligence Chip Market by Technology (GPU, ASIC, FPGA, and CPU) and Application (Media & Advertising, BFSI, IT & Telecom, Retail, Healthcare, Automotive & Transportation, and Others) - Global Opportunity Analysis and Industry Forecast, 2017-2023

Product link: https://marketpublishers.com/r/A39EA20BB9DEN.html

Price: US$ 5,540.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/A39EA20BB9DEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

**All fields are required

Custumer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

+44 20 8123 2220
info@marketpublishers.com

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970