

Global Artificial Intelligence (AI) Hardware Market – Types, Applications and Industry Sectors

This comprehensive report analyzes and projects the global and regional market for Artificial Intelligence (AI) Hardware by Product Type (Processors, Network, Memory, Storage), Application (Machine Learning, Computer Vision, Natural Language Processing, Expert Systems), and Industry Sector (IT & Telecommunications, BFSI, Healthcare, Retail, Automotive, Others) for the period 2021-2030 with projections from 2024-2030 in terms of value in USD.

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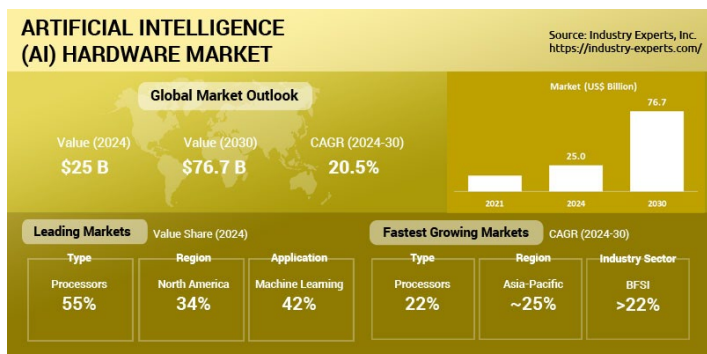
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Artificial Intelligence (AI) Hardware Market Trends and Outlook

The global market for AI Hardware is estimated at US\$25 billion in 2024 and is likely to register a 2024-2030 CAGR of 20.5% in reaching a projected US\$76.7 billion by 2030.

One of the major factors propelling demand for AI Hardware includes growing demand for AI applications. An increase in the use of AI across industries, such as healthcare (for diagnostics), automotive (for autonomous vehicles) and retail (for personalized suggestions) has been driving the demand for effective hardware that can support complex algorithms and real-time processing. Further expansion is being enabled by innovations in chip design, such as smaller, more energy-efficient transistors and specialized AI accelerators that allow faster and more efficient computation. AI-optimized solutions have also gained in demand owing to an exponential growth of data from IoT devices, cloud services and digital platforms, requiring hardware that can handle large-scale processing and analytics. High-tech companies, such as Google, Microsoft, NVIDIA, Intel and Qualcomm have also been investing heavy amounts towards R&D with the goal of developing cutting-edge AI hardware, further accelerating innovation and market growth. Edge computing is a concept that processes data closer to its source, as in the case of smart devices or autonomous systems, for which compact, efficient AI hardware specific for edge environments is needed, making it another fueling demand for AI hardware.



Artificial Intelligence (AI) Hardware Market Report Scope

This global report on Artificial Intelligence (AI) Hardware analyzes the market based on hardware type, application type and industry sector. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period:	2021-2023
Base Year:	2024
Forecast Period:	2024-2030
Units:	Value market in US\$
Companies Mentioned:	10+

Artificial Intelligence (AI) Hardware Market by Geographic Region

- North America (The United States, Canada and Mexico)
- Europe (Germany, the United Kingdom, France, Italy, Netherlands, Spain, Russia, Switzerland and Rest of Europe)
- Asia-Pacific (China, Japan, India, Australia, Singapore, South Korea and Rest of Asia-Pacific)
- South America (Brazil, Argentina, Colombia, Chile, Peru and Rest of South America)
- Middle East & Africa (The United Arab Emirates, South Africa, Egypt, Saudi Arabia, Morocco, Kuwait, Qatar and Rest of Middle East & Africa)

Artificial Intelligence (AI) Hardware Market by Hardware Type

- Processors
- Network
- Memory
- Storage

Artificial Intelligence (AI) Hardware Market by Application Type

- Machine Learning
- Computer Vision
- Natural Language Processing
- Expert Systems

Artificial Intelligence (AI) Hardware Market by Industry Sector

- IT & Telecommunications
- BFSI
- Healthcare
- Retail
- Automotive
- Others

SAMPLE COMPANY PROFILE

QUALCOMM TECHNOLOGIES, INC.

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 Website: www.qualcomm.com

Business Profile

Qualcomm Technologies, Inc., established in 1985 and based in San Diego, California, designs and manufactures wireless telecommunication products and solutions. The company’s range of offerings comprises system processors, audio components, wireless networking, radio frequency components, sensors, wired networking and wireless connectivity. Major applications for Qualcomm’s solutions include mobile devices, laptops, tablets, cellular networks, cameras, headsets, enterprise networks, home security, smart homes, auto connectivity, warbles and small cells. Following is a list of the various products offered by the company.

Product Type	Particulars
System Processors	Automotive, Extended Reality, Handheld Gaming, IoT, Laptops & Tablets, Printers, Smart Homes, Smartphones and Wearables
Audio Components	Amplifiers, Codecs and Processors
Power Managers	Battery Chargers and Power Management Integrated Circuits (PMICs)
RF Components	Antenna Modules, Front-End Modules and Front-End Filters
Sensor Components	Environmental and Fingerprint
Wired Networking	Ethernet Transceivers, Optical Network Transceivers, PLC Transceivers and Processors
Wireless Networking	Location Receivers, Mobile Modems, Modem-RF Systems, Processors for Wi-Fi and Cellular Infrastructure
Wireless Connectivity	Bluetooth Transceivers, Processors for Bluetooth, Processors for Wi-Fi, Processors for Wi-Fi & Bluetooth and Wi-Fi Transceivers

In the area of artificial intelligence, Qualcomm offers the Snapdragon® range of compute platforms with improved performance, battery life, camera and audio capabilities. Solutions include PC AI, Smartphone AI, Automotive AI, XR AI, Cloud AI, Edge AI Box and Networking AI.

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SAMPLE TABLE/CHART

Glance at 2021, 2024 and 2030 Global AI Hardware Market Share (%) by Type - Processors, Network, Memory and Storage



Global AI Processors Market Analysis (2021-2030) by Geographic Region - North America, Europe, Asia-Pacific, South America and Middle East & Africa in US\$ Million



KEY PLAYERS PROFILED

- ADVANCED MICRO DEVICES, INC.
- APPLE, INC.
- BRAINCHIP HOLDINGS LTD.
- CAMBRICON TECHNOLOGIES CORP LTD
- DELL TECHNOLOGIES, INC.
- GOOGLE LLC
- GRAPHCORE LTD
- HUAWAI TECHNOLOGIES CO LTD
- INTEL CORPORATION
- KALRAY SA
- LIGHTON SAS
- NVIDIA CORP
- QUALCOMM TECHNOLOGIES, INC.
- SAMSUNG ELECTRONICS CO LTD

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TABLE OF CONTENTS

PART A: GLOBAL MARKET PERSPECTIVE..... 1

1. EXECUTIVE SUMMARY 1

- 1.1 A Roundup on Artificial Intelligence (AI) Hardware 10
 - 1.1.1 Types of Artificial Intelligence (AI) Hardware 10
 - 1.1.2 Major Applications of Artificial Intelligence (AI) Hardware 10
 - 1.1.3 Artificial Intelligence (AI) Hardware by Industry Sectors 11
 - 1.1.4 Key Market Trends of Artificial Intelligence (AI) Hardware 11
 - 1.1.4.1 Expansion of AI Data Centers on the Card..... 11
 - 1.1.4.2 Edge AI Computing: “Cutting Edge” of AI Technology 11
 - 1.1.4.3 Demand for Specialized AI Chips and Accelerators Increasing 12
 - 1.1.4.4 Autonomous Systems Powered by AI Gaining Traction..... 12
 - 1.1.4.5 Quantum AI and Next-Gen Computing Set to Transform Specific Tasks.... 12
 - 1.1.4.6 AI Hardware Startups and Investments On the Rise 13
 - 1.1.4.7 Role of AI in Cybersecurity and Privacy Expanding 13

2. INDUSTRY LANDSCAPE..... 14

- 2.1 Global Artificial Intelligence (AI) Hardware Market Outlook..... 14
 - 2.1.1 Growth Drivers of Artificial Intelligence (AI) Hardware Market..... 15
 - 2.1.1.1 Cloud AI and AI-as-a-Service (AlaaS) On the Rise..... 15
 - 2.1.1.1.1 Crucial Influencing Factors 15
 - 2.1.1.1.2 Market Impacts 15
 - 2.1.1.2 Improvements in AI Chips and Accelerators 15
 - 2.1.1.2.1 Crucial Influencing Factors 15
 - 2.1.1.2.2 Market Impacts 16
 - 2.1.1.3 Demand for AI-Powered Applications Increasing 16
 - 2.1.1.3.1 Crucial Influencing Factors 16
 - 2.1.1.3.1.1 AI in Autonomous Vehicles and Advanced Driver Assistance Systems (ADAS) .. 16
 - 2.1.1.3.1.2 Healthcare Based on AI 16
 - 2.1.1.3.1.3 AI in Retail and Personalization..... 16
 - 2.1.1.3.2 Market Impacts 16
 - 2.1.1.4 Edge AI and On-Device Processing Expanding..... 16
 - 2.1.1.4.1 Crucial Influencing Factors 17
 - 2.1.1.4.2 Market Impacts 17
 - 2.1.1.5 AI Infrastructure Investments by Governments and Organizations Increasing ... 17

- 2.1.1.5.1 Crucial Influencing Factors..... 17
- 2.1.1.5.2 Market Impacts..... 17
- 2.1.1.6 Cybersecurity’s Adoption of AI Growing 17
 - 2.1.1.6.1 Crucial Influencing Factors..... 17
 - 2.1.1.6.2 Market Impacts..... 18
- 2.1.1.7 Contest Between AI Hardware Startups and Semiconductor Manufacturers.. 18
 - 2.1.1.7.1 Crucial Influencing Factors..... 18
 - 2.1.1.7.2 Market Impacts..... 18
- 2.1.1.8 AI Hardware Subject to Ethical and Regulatory Considerations..... 18
 - 2.1.1.8.1 Crucial Influencing Factors..... 18
 - 2.1.1.8.2 Market Impacts..... 18
- 2.1.2 Challenges Inhibiting AI Hardware Market Growth and Mitigating Strategies 19
 - 2.1.2.1 Disruptive Semiconductor Supply Chains Being Further Marred by Several Factors 19
 - 2.1.2.1.1 Impact on the Industry 19
 - 2.1.2.1.2 Strategies for Mitigating Challenges... 19
 - 2.1.2.1.3 Prohibitive Pricing of AI Hardware Deters Development and Deployment 20
 - 2.1.2.1.3.1 Impact on the Industry 20
 - 2.1.2.1.3.2 Strategies for Mitigating Challenges..... 20
 - 2.1.2.1.4 Concerns Related to High Power Consumption and Sustainability 20
 - 2.1.2.1.4.1 Impact on the Industry 21
 - 2.1.2.1.4.2 Strategies for Mitigating Challenges..... 21
 - 2.1.2.1.5 Challenges Concerning Ethics, Privacy and Regulations..... 21
 - 2.1.2.1.5.1 Impact on the Industry 21
 - 2.1.2.1.5.2 Strategies for Mitigating Challenges..... 22
 - 2.1.2.1.6 AI Model Deployment a Complex Process and How Hardware Optimization Helps 22
 - 2.1.2.1.7 Impact on the Industry 22
 - 2.1.2.1.8 Strategies for Mitigating Challenges ... 22
 - 2.1.2.1.9 AI Hardware’s Limited Lifespan and Unfettered Technological Changes..... 23
 - 2.1.2.1.9.1 Impact on the Industry 23
 - 2.1.2.1.9.2 Strategies for Mitigating Challenges..... 23
 - 2.1.2.1.10 AI Hardware and Cybersecurity 23
 - 2.1.2.1.10.1 Impact on the Industry 24
 - 2.1.2.1.10.2 Strategies for Mitigating Challenges..... 24
 - 2.1.2.1.10.3 Dearth of AI Expertise and Skills 24
 - 2.1.2.1.10.4 Impact on the Industry 24
 - 2.1.2.1.10.5 Strategies for Mitigating Challenges..... 24
- 2.2 How AI Hardware is being Adopted by Industry?..... 25

- 2.3 Artificial intelligence (AI) Hardware Industry – SWOT Analysis 26
 - 2.3.1 Strengths 26
 - 2.3.2 Weaknesses 26
 - 2.3.3 Opportunities 26
 - 2.3.4 Threats..... 26
- 2.4 Strategic AI Hardware Industry Analysis... 27
 - 2.4.1 Porter’s Five Forces Analysis 27
 - 2.4.2 PESTEL Analysis..... 28
- 2.5 Market Entry & Startup Strategies for AI Hardware Market 29
 - 2.5.1 Market Entry Strategies..... 29
 - 2.5.2 Startup Trends 30
 - 2.5.2.1 AI Hardware Startups Analysis by Region..... 31
- 2.6 Artificial Intelligence (AI) Hardware Supply Chain Analysis 32
 - 2.6.1 Critical Bottlenecks and Geopolitical Risks in the AI Hardware Supply Chain 33
 - 2.6.2 Escalating Trade Restrictions and Geopolitical Tensions 34
 - 2.6.3 Strategic Overreliance on TSMC for Advanced AI Chip Manufacturing 34
 - 2.6.4 Global Semiconductor Supply Constraints 34
 - 2.6.5 Limited Production Capacity of High Bandwidth Memory..... 34
 - 2.6.6 Emerging Trends Shaping the Future of the AI Hardware Supply Chain..... 35
 - 2.6.7 Strategic Investment in Semiconductor Infrastructure 35
 - 2.6.8 Regionalization and Supply Chain Diversification..... 35
 - 2.6.9 Next-Generation AI Chip Architectures 35
- 3. COMPETITIVE LANDSCAPE 36
 - 3.1 Market Positioning of Key AI Hardware Companies..... 36
 - 3.2 Market Share Analysis of Artificial Intelligence (AI) Hardware..... 39
 - 3.2.1 AI Hardware Market Share Analysis by Product 39
 - 3.2.2 AI Hardware Market Share Analysis by Company 40
 - 3.2.3 SWOT Analysis for Market Leaders of AI Hardware..... 41
 - 3.3 Pricing Analysis of Artificial Intelligence Hardware..... 41
 - 3.3.1 Comparison of Custom AI Chips and ASICs Costs with General-Purpose AI Chips.... 41
 - 3.3.2 AI Hardware-as-a-Service (HaaS) and Subscription-Based Pricing Models 42
 - 3.3.3 Pricing of AI Edge Hardware and AI-Embedded Devices 42
 - 3.3.4 Production Growth and Competition Causing AI Chip Costs to Decline 42



3.3.5 Demand-Supply Imbalance Leading to Cost Increases of High-Performance AI GPUs...42	4.1.4 April 2025..... 67	4.1.21 September 2024 72
3.3.6 Supply Chain Constraints Increasing AI Hardware Costs.....43	4.1.4.1 Kamiwaza’s AI Orchestration Engine Powered by Intel® Gaudi® 3 AI accelerators and Intel® Xeon® 6 processors..... 67	4.1.21.1 Dell Technologies and Red Hat Partner for RHEL AI..... 72
3.3.7 Pricing Trends for the Near Future.....43	4.1.5 March 2025..... 67	4.1.22 August 2024..... 72
3.4 An Exhaustive Analysis of AI Hardware in Untapped Markets43	4.1.5.1 AMD EPYC™ Processors Power Oracle Cloud Infrastructure (OCI) Compute E6 Standard shapes..... 67	4.1.22.1 AMD Acquires Silo AI 72
3.4.1 Small & Mid-Sized Businesses (SMBs)43	4.1.6 March 2025..... 67	4.1.23 July 2024..... 73
3.4.2 Wearable Devices and Smart IoT Sensors.....44	4.1.6.1 AMD Announces Acquisition of ZT Systems..... 67	4.1.23.1 LightOn and Hewlett Packard Enterprise (HPE) Partner to Develop a Joint AI Offering 73
3.4.3 Edge Computing in Promising Markets ..45	4.1.7 March 2025..... 68	4.1.24 June 2024 73
3.4.4 Personalized AI Assistants.....46	4.1.7.1 Dell Technologies Unveils AI Innovations 68	4.1.24.1 AMD’s SoC Device to Power Sun Singapore’s Smart Parking Solution..... 73
3.4.5 Quantum Computing + AI Fusion47	4.1.8 March 2025..... 68	4.1.25 May 2024..... 73
3.4.6 AI Hardware for LegalTech and Financial Auditing.....47	4.1.8.1 Google Announces the Acquisition of Wiz..... 68	4.1.25.1 Dell and NVIDIA Expand AI Factory to Accelerate Enterprise AI Adoption 73
3.4.7 Smart Cities and Urban Infrastructure ...48	4.1.9 March 2025..... 68	4.1.26 May 2024..... 74
3.4.8 Ethical and Explainable AI49	4.1.9.1 Together AI Collaborates with Dell Technologies to Scale AI Acceleration Cloud .. 68	4.1.26.1 Intel Core Ultra Powers Over 500 Optimized AI Models 74
3.4.9 Telecom Networks and 5G49	4.1.10 February 2025..... 68	4.1.27 April 2024 74
3.4.10 Space and Defense Applications50	4.1.10.1 G42 Announces Strategic Investment in Partnership with DataOne 68	4.1.27.1 Kalray and ARM Partner for Accelerated Processing..... 74
3.4.11 LegalTech and Financial Auditing51	4.1.11 January 2025..... 69	4.1.28 April 2024 74
3.5 Key Market Players52	4.1.11.1 BrainChip Introduces Neuromorphic Capabilities to M.2 Form Factor..... 69	4.1.28.1 Meta Llama 3 Optimized for Intel Gaudi, Xeon, Core Ultra, and Arc..... 74
3.5.1 ADVANCED MICRO DEVICES, INC. (UNITED STATES).....52	4.1.12 January 2025..... 69	4.1.29 April 2024 74
3.5.2 APPLE, INC. (UNITED STATES).....55	4.1.12.1 LightOn and Europrop Announce Collaboration to Deploy Paradigm Generative AI Platform 69	4.1.29.1 Intel Builds World’s Largest Neuromorphic System..... 74
3.5.3 BRAINCHIP HOLDINGS LTD. (AUSTRALIA).....56	4.1.13 January 2025..... 69	4.1.30 April 2024 75
3.5.4 CAMBRICON TECHNOLOGIES CORP LTD (CHINA)57	4.1.13.1 AMD Ryzen AI PRO Processors Power New Dell Pro devices 69	4.1.30.1 Dell Technologies and Northwestern Medicine Develop Multimodal LLM for Patient Care 75
3.5.5 DELL TECHNOLOGIES, INC. (UNITED STATES)58	4.1.14 November 2024 70	4.1.31 April 2024 75
3.5.6 GOOGLE LLC (UNITED STATES).....58	4.1.14.1 LightOn Collaborates with Gcore to Overcome Geographical Constraints 70	4.1.31.1 Kalray Announces the Launch of TURBOCARD4 75
3.5.7 GRAPHCORE LTD (THE UNITED KINGDOM)59	4.1.15 November 2024 70	4.1.32 March 2024 75
3.5.8 HUAWEI TECHNOLOGIES CO LTD (CHINA)59	4.1.15.1 Dell Announces Expansion of Dell NativeEdge edge operations..... 70	4.1.32.1 Orange Business and LightOn Partner to launch new Offering 75
3.5.9 INTEL CORPORATION (UNITED STATES) ..60	4.1.16 November 2024 70	4.1.33 March 2024 76
3.5.10 KALRAY SA (FRANCE).....61	4.1.16.1 AMD and Fujitsu Partner to Develop Computing Platforms for AI and High-Performance Computing 70	4.1.33.1 AMD and Sony Semiconductor Solutions Join Forces for LiDAR solution 76
3.5.11 LIGHTON SAS (FRANCE).....61	4.1.17 October 2024..... 71	4.1.34 March 2024 76
3.5.12 NVIDIA CORP (UNITED STATES).....61	4.1.17.1 LightOn Partners with Channel Tools 71	4.1.34.1 Dell Technologies Announces Partnership with CrowdStrike 76
3.5.13 QUALCOMM TECHNOLOGIES, INC. (UNITED STATES).....63	4.1.18 September 2024 71	4.1.35 February 2024 76
3.5.14 SAMSUNG ELECTRONICS CO LTD (SOUTH KOREA)64	4.1.18.1 Dell Launches Dell AI for Telecom..... 71	4.1.35.1 Dell Technologies and Subaru Collaborate for Driver Safety 76
4. KEY BUSINESS & PRODUCT TRENDS 66	4.1.19 September 2024 71	4.1.36 February 2024 77
4.1 Important Recent Industry Activity.....66	4.1.19.1 Altera Unveils FPGA-based Innovations 71	4.1.36.1 Intel Launches New FPGA Company, Altera 77
4.1.1 April 2025.....66	4.1.20 September 2024 72	4.1.37 February 2024 77
4.1.1.1 SNSA Awards Frontgrade Gaisler a Contract to Commercialize SoC Device for Space Applications66	4.1.20.1 AMD Announces the Opening of New Engineering Design Center in Serbia 72	4.1.37.1 Intel and Ohio Supercomputer Center Introduce Cardinal 77
4.1.2 April 2025.....66		4.1.38 February 2024 77
4.1.2.1 Network Optix Optimizes its Software with Intel Processors66		4.1.38.1 JR Kyushu Uses AMD Kria™ K26 System-on-Module for AI Track Inspection 77
4.1.3 April 2025.....66		4.2 Recent Major Product Launches by the Market Leaders 78
4.1.3.1 Siemens Healthineers Demonstrates AI-Rad Companion software powered by Intel Xeon Scalable processors.....66		



5. GLOBAL MARKET OVERVIEW 80		
5.1 Global Artificial Intelligence (AI) Hardware Market Overview by Type81		
5.1.1 Artificial Intelligence (AI) Hardware Type Market Overview by Global Region.....83		
5.1.1.1 Processors83		
5.1.1.2 Network85		
5.1.1.3 Memory87		
5.1.1.4 Storage89		
5.2 Global Artificial Intelligence (AI) Hardware Market Overview by Application....91		
5.2.1 Artificial Intelligence (AI) Hardware Applications Market Overview by Global Region93		
5.2.1.1 Machine Learning.....93		
5.2.1.2 Computer Vision95		
5.2.1.3 Natural Language Processing97		
5.2.1.4 Expert Systems.....99		
5.3 Global Artificial Intelligence (AI) Hardware Market Overview by Industry Sector.....101		
5.3.1 Artificial Intelligence (AI) Hardware in Industry Sector Market Overview by Global Region103		
5.3.1.1 IT & Telecommunications103		
5.3.1.2 BFSI105		
5.3.1.3 Healthcare.....107		
5.3.1.4 Retail109		
5.3.1.5 Automotive111		
5.3.1.6 Other Industry Sectors113		
PART B: REGIONAL MARKET PERSPECTIVE. 115		
REGIONAL MARKET OVERVIEW 117		
6. NORTH AMERICA 117		
6.1 North American AI Hardware Market Overview by Geographic Region118		
6.2 North American AI Hardware Market Overview by Type120		
6.3 North American AI Hardware Market Overview by Application122		
6.4 North American AI Hardware Market Overview by Industry Sector.....124		
6.5 Country-wise Analysis of North American AI Hardware Market126		
6.5.1 The United States.....126		
6.5.1.1 United States AI Hardware Market Overview by Type126		
6.5.1.2 United States AI Hardware Market Overview by Application128		
6.5.1.3 United States AI Hardware Market Overview by Industry Sector.....130		
6.5.2 Canada132		
6.5.2.1 Canadian AI Hardware Market Overview by Type132		
6.5.2.2 Canadian AI Hardware Market Overview by Application.....134		
6.5.2.3 Canadian AI Hardware Market Overview by Industry Sector.....136		
6.5.3 Mexico138		
6.5.3.1 Mexican AI Hardware Market Overview by Type138		
6.5.3.2 Mexican AI Hardware Market Overview by Application140		
6.5.3.3 Mexican AI Hardware Market Overview by Industry Sector.....142		
7. EUROPE144		
7.1 European AI Hardware Market Overview by Geographic Region.....145		
7.2 European AI Hardware Market Overview by Type147		
7.3 European AI Hardware Market Overview by Application149		
7.4 European AI Hardware Market Overview by Industry Sector.....151		
7.5 Country-wise Analysis of European AI Hardware Market153		
7.5.1 Germany153		
7.5.1.1 German AI Hardware Market Overview by Type153		
7.5.1.2 German AI Hardware Market Overview by Application155		
7.5.1.3 German AI Hardware Market Overview by Industry Sector.....157		
7.5.2 The United Kingdom159		
7.5.2.1 United Kingdom AI Hardware Market Overview by Type.....159		
7.5.2.2 United Kingdom AI Hardware Market Overview by Application161		
7.5.2.3 United Kingdom AI Hardware Market Overview by Industry Sector163		
7.5.3 France165		
7.5.3.1 French AI Hardware Market Overview by Type165		
7.5.3.2 French AI Hardware Market Overview by Application167		
7.5.3.3 French AI Hardware Market Overview by Industry Sector.....169		
7.5.4 Italy171		
7.5.4.1 Italian AI Hardware Market Overview by Type171		
7.5.4.2 Italian AI Hardware Market Overview by Application173		
7.5.4.3 Italian AI Hardware Market Overview by Industry Sector.....175		
7.5.5 The Netherlands177		
7.5.5.1 Dutch AI Hardware Market Overview by Type177		
7.5.5.2 Dutch AI Hardware Market Overview by Application.....179		
7.5.5.3 Dutch AI Hardware Market Overview by Industry Sector181		
7.5.6 Spain183		
7.5.6.1 Spanish AI Hardware Market Overview by Type183		
7.5.6.2 Spanish AI Hardware Market Overview by Application.....185		
7.5.6.3 Spanish AI Hardware Market Overview by Industry Sector187		
7.5.7 Russia.....189		
7.5.7.1 Russian AI Hardware Market Overview by Type189		
7.5.7.2 Russian AI Hardware Market Overview by Application.....191		
7.5.7.3 Russian AI Hardware Market Overview by Industry Sector193		
7.5.8 Switzerland195		
7.5.8.1 Swiss AI Hardware Market Overview by Type195		
7.5.8.2 Swiss AI Hardware Market Overview by Application.....197		
7.5.8.3 Swiss AI Hardware Market Overview by Industry Sector199		
7.5.9 Rest of Europe201		
7.5.9.1 Rest of Europe AI Hardware Market Overview by Type201		
7.5.9.2 Rest of Europe AI Hardware Market Overview by Application.....203		
7.5.9.3 Rest of Europe AI Hardware Market Overview by Industry Sector205		
8. ASIA-PACIFIC207		
8.1 Asia-Pacific AI Hardware Market Overview by Geographic Region208		
8.2 Asia-Pacific AI Hardware Market Overview by Type210		
8.3 Asia-Pacific AI Hardware Market Overview by Application.....212		
8.4 Asia-Pacific AI Hardware Market Overview by Industry Sector214		
8.5 Country-wise Analysis of Asia-Pacific AI Hardware Market216		
8.5.1 China.....216		
8.5.1.1 Chinese AI Hardware Market Overview by Type216		
8.5.1.2 Chinese AI Hardware Market Overview by Application.....218		
8.5.1.3 Chinese AI Hardware Market Overview by Industry Sector220		
8.5.2 Japan.....222		
8.5.2.1 Japanese AI Hardware Market Overview by Type222		
8.5.2.2 Japanese AI Hardware Market Overview by Application.....224		
8.5.2.3 Japanese AI Hardware Market Overview by Industry Sector226		



8.5.3 India	228	9.5.2.2 Argentine AI Hardware Market Overview by Application	275	10.5.2.3 South African AI Hardware Market Overview by Industry Sector	322
8.5.3.1 Indian AI Hardware Market Overview by Type	228	9.5.2.3 Argentine AI Hardware Market Overview by Industry Sector	277	10.5.3 Egypt	324
8.5.3.2 Indian AI Hardware Market Overview by Application	230	9.5.3 Colombia	279	10.5.3.1 Egypt AI Hardware Market Overview by Type	324
8.5.3.3 Indian AI Hardware Market Overview by Industry Sector	232	9.5.3.1 Colombia AI Hardware Market Overview by Type	279	10.5.3.2 Egypt AI Hardware Market Overview by Application	326
8.5.4 Australia	234	9.5.3.2 Colombia AI Hardware Market Overview by Application	281	10.5.3.3 Egypt AI Hardware Market Overview by Industry Sector	328
8.5.4.1 Australia AI Hardware Market Overview by Type	234	9.5.3.3 Colombia AI Hardware Market Overview by Industry Sector	283	10.5.4 Saudi Arabia	330
8.5.4.2 Australia AI Hardware Market Overview by Application	236	9.5.4 Chile	285	10.5.4.1 Saudi Arabian AI Hardware Market Overview by Type	330
8.5.4.3 Australia AI Hardware Market Overview by Industry Sector	238	9.5.4.1 Chilean AI Hardware Market Overview by Type	285	10.5.4.2 Saudi Arabian AI Hardware Market Overview by Application	332
8.5.5 Singapore	240	9.5.4.2 Chilean AI Hardware Market Overview by Application	287	10.5.4.3 Saudi Arabian AI Hardware Market Overview by Industry Sector	334
8.5.5.1 Singaporean AI Hardware Market Overview by Type	240	9.5.4.3 Chilean AI Hardware Market Overview by Industry Sector	289	10.5.5 Morocco	336
8.5.5.2 Singaporean AI Hardware Market Overview by Application	242	9.5.5 Peru	291	10.5.5.1 Morocco AI Hardware Market Overview by Type	336
8.5.5.3 Singaporean AI Hardware Market Overview by Industry Sector	244	9.5.5.1 Peru AI Hardware Market Overview by Type	291	10.5.5.2 Morocco AI Hardware Market Overview by Application	338
8.5.6 South Korea	246	9.5.5.2 Peru AI Hardware Market Overview by Application	293	10.5.5.3 Morocco AI Hardware Market Overview by Industry Sector	340
8.5.6.1 South Korean AI Hardware Market Overview by Type	246	9.5.5.3 Peru AI Hardware Market Overview by Industry Sector	295	10.5.6 Kuwait	342
8.5.6.2 South Korean AI Hardware Market Overview by Application	248	9.5.6 Rest of South America	297	10.5.6.1 Kuwait AI Hardware Market Overview by Type	342
8.5.6.3 South Korean AI Hardware Market Overview by Industry Sector	250	9.5.6.1 Rest of South America AI Hardware Market Overview by Type	297	10.5.6.2 Kuwait AI Hardware Market Overview by Application	344
8.5.7 Rest of Asia-Pacific	252	9.5.6.2 Rest of South America AI Hardware Market Overview by Application	299	10.5.6.3 Kuwait AI Hardware Market Overview by Industry Sector	346
8.5.7.1 Rest of Asia-Pacific AI Hardware Market Overview by Type	252	9.5.6.3 Rest of South America AI Hardware Market Overview by Industry Sector	301	10.5.7 Qatar	348
8.5.7.2 Rest of Asia-Pacific AI Hardware Market Overview by Application	254	10. MIDDLE EAST & AFRICA	303	10.5.7.1 Qatar AI Hardware Market Overview by Type	348
8.5.7.3 Rest of Asia-Pacific AI Hardware Market Overview by Industry Sector	256	10.1 Middle East & Africa AI Hardware Market Overview by Geographic Region	304	10.5.7.2 Qatar AI Hardware Market Overview by Application	350
9. SOUTH AMERICA	258	10.2 Middle East & Africa AI Hardware Market Overview by Type	306	10.5.7.3 Qatar AI Hardware Market Overview by Industry Sector	352
9.1 South American AI Hardware Market Overview by Geographic Region	259	10.3 Middle East & Africa AI Hardware Market Overview by Application	308	10.5.8 Rest of Middle East & Africa	354
9.2 South American AI Hardware Market Overview by Type	261	10.4 Middle East & Africa AI Hardware Market Overview by Industry Sector	310	10.5.8.1 Rest of Middle East & Africa AI Hardware Market Overview by Type	354
9.3 South American AI Hardware Market Overview by Application	263	10.5 Country-wise Analysis of Middle East & Africa AI Hardware Market	312	10.5.8.2 Rest of Middle East & Africa AI Hardware Market Overview by Application ..	356
9.4 South American AI Hardware Market Overview by Industry Sector	265	10.5.1 United Arab Emirates	312	10.5.8.3 Rest of Middle East & Africa AI Hardware Market Overview by Industry Sector	358
9.5 Country-wise Analysis of South American AI Hardware Market	267	10.5.1.1 United Arab Emirates AI Hardware Market Overview by Type	312	PART C: GUIDE TO THE INDUSTRY	360
9.5.1 Brazil	267	10.5.1.2 United Arab Emirates AI Hardware Market Overview by Application	314	1. North America	360
9.5.1.1 Brazilian AI Hardware Market Overview by Type	267	10.5.1.3 United Arab Emirates AI Hardware Market Overview by Industry Sector	316	2. Europe	361
9.5.1.2 Brazilian AI Hardware Market Overview by Application	269	10.5.2 South Africa	318	3. Asia-Pacific	362
9.5.1.3 Brazilian AI Hardware Market Overview by Industry Sector	271	10.5.2.1 South African AI Hardware Market Overview by Type	318	4. Rest of World	362
9.5.2 Argentina	273	10.5.2.2 South African AI Hardware Market Overview by Application	320	PART D: ANNEXURE	363
9.5.2.1 Argentine AI Hardware Market Overview by Type	273			1. RESEARCH METHODOLOGY	363
				2. FeedBack	365

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