

# Global Deep Learning Chip Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Deep Learning Chip market size was valued at USD 3322.4 million in 2023 and is forecast to a readjusted size of USD 4184.2 million by 2030 with a CAGR of 3.3% during review period.

Deep learning technology is driving the evolution of artificial intelligence (AI) and has become one of the hottest topics of discussion within the technology world and beyond. Given the rate at which deep learning is progressing, some industry observers are predicting it will bring about a doomsday scenario, while others strive for a time when the technology can transform business processes and create new business models through scalable, more efficient automation and predictive capabilities. The current market climate is ripe for innovation in hardware in general, and chipsets more specifically. In the industry, NVIDIA profits most in 2016 and recent years, while Intel and IBM ranked 2 and 3. The market share of them is 26.72%, 20.57% and 12.56% in 2016. The gap of market share is keep on enlarged due to different strategy.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales

in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

The Global Info Research report includes an overview of the development of the Deep Learning Chip industry chain, the market status of Consumer Electronics (Graphics Processing Units (GPUs), Central Processing Units (CPUs)), Aerospace, Military & Defense (Graphics Processing Units (GPUs), Central Processing Units (CPUs)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Deep Learning Chip.

Regionally, the report analyzes the Deep Learning Chip markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Deep Learning Chip market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Deep Learning Chip market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Deep Learning Chip industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Pcs), revenue generated, and market share of different by Type (e.g., Graphics Processing Units (GPUs), Central Processing Units (CPUs)).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Deep Learning Chip market.

**Regional Analysis:** The report involves examining the Deep Learning Chip market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Deep Learning Chip market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Deep Learning Chip:

**Company Analysis:** Report covers individual Deep Learning Chip manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Deep Learning Chip. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Aerospace, Military & Defense).

**Technology Analysis:** Report covers specific technologies relevant to Deep Learning Chip. It assesses the current state, advancements, and potential future developments in Deep Learning Chip areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Deep Learning Chip market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Deep Learning Chip market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

### Graphics Processing Units (GPUs)

Central Processing Units (CPUs)

Application Specific Integrated Circuits (ASICs)

Field Programmable Gate Arrays (FPGAs)

Others

#### Market segment by Application

Consumer Electronics

Aerospace, Military & Defense

Automotive

Industrial

Medical

Others

#### Major players covered

NVIDIA

Intel

IBM

Qualcomm

CEVA

KnuEdge

AMD

Xilinx

ARM

Google

Graphcore

TeraDeep

Wave Computing

BrainChip

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Deep Learning Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Deep Learning Chip, with price, sales, revenue and global market share of Deep Learning Chip from 2019 to 2024.

Chapter 3, the Deep Learning Chip competitive situation, sales quantity, revenue and

global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Deep Learning Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Deep Learning Chip market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Deep Learning Chip.

Chapter 14 and 15, to describe Deep Learning Chip sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Deep Learning Chip
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Deep Learning Chip Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Graphics Processing Units (GPUs)
  - 1.3.3 Central Processing Units (CPUs)
  - 1.3.4 Application Specific Integrated Circuits (ASICs)
  - 1.3.5 Field Programmable Gate Arrays (FPGAs)
  - 1.3.6 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Deep Learning Chip Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Consumer Electronics
  - 1.4.3 Aerospace, Military & Defense
  - 1.4.4 Automotive
  - 1.4.5 Industrial
  - 1.4.6 Medical
  - 1.4.7 Others
- 1.5 Global Deep Learning Chip Market Size & Forecast
  - 1.5.1 Global Deep Learning Chip Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Deep Learning Chip Sales Quantity (2019-2030)
  - 1.5.3 Global Deep Learning Chip Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 NVIDIA
  - 2.1.1 NVIDIA Details
  - 2.1.2 NVIDIA Major Business
  - 2.1.3 NVIDIA Deep Learning Chip Product and Services
  - 2.1.4 NVIDIA Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 NVIDIA Recent Developments/Updates
- 2.2 Intel
  - 2.2.1 Intel Details

- 2.2.2 Intel Major Business
- 2.2.3 Intel Deep Learning Chip Product and Services
- 2.2.4 Intel Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.2.5 Intel Recent Developments/Updates
- 2.3 IBM
  - 2.3.1 IBM Details
  - 2.3.2 IBM Major Business
  - 2.3.3 IBM Deep Learning Chip Product and Services
  - 2.3.4 IBM Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 IBM Recent Developments/Updates
- 2.4 Qualcomm
  - 2.4.1 Qualcomm Details
  - 2.4.2 Qualcomm Major Business
  - 2.4.3 Qualcomm Deep Learning Chip Product and Services
  - 2.4.4 Qualcomm Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 Qualcomm Recent Developments/Updates
- 2.5 CEVA
  - 2.5.1 CEVA Details
  - 2.5.2 CEVA Major Business
  - 2.5.3 CEVA Deep Learning Chip Product and Services
  - 2.5.4 CEVA Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 CEVA Recent Developments/Updates
- 2.6 KnuEdge
  - 2.6.1 KnuEdge Details
  - 2.6.2 KnuEdge Major Business
  - 2.6.3 KnuEdge Deep Learning Chip Product and Services
  - 2.6.4 KnuEdge Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 KnuEdge Recent Developments/Updates
- 2.7 AMD
  - 2.7.1 AMD Details
  - 2.7.2 AMD Major Business
  - 2.7.3 AMD Deep Learning Chip Product and Services
  - 2.7.4 AMD Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)



### 2.7.5 AMD Recent Developments/Updates

## 2.8 Xilinx

### 2.8.1 Xilinx Details

### 2.8.2 Xilinx Major Business

### 2.8.3 Xilinx Deep Learning Chip Product and Services

### 2.8.4 Xilinx Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.8.5 Xilinx Recent Developments/Updates

## 2.9 ARM

### 2.9.1 ARM Details

### 2.9.2 ARM Major Business

### 2.9.3 ARM Deep Learning Chip Product and Services

### 2.9.4 ARM Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.9.5 ARM Recent Developments/Updates

## 2.10 Google

### 2.10.1 Google Details

### 2.10.2 Google Major Business

### 2.10.3 Google Deep Learning Chip Product and Services

### 2.10.4 Google Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.10.5 Google Recent Developments/Updates

## 2.11 Graphcore

### 2.11.1 Graphcore Details

### 2.11.2 Graphcore Major Business

### 2.11.3 Graphcore Deep Learning Chip Product and Services

### 2.11.4 Graphcore Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.11.5 Graphcore Recent Developments/Updates

## 2.12 TeraDeep

### 2.12.1 TeraDeep Details

### 2.12.2 TeraDeep Major Business

### 2.12.3 TeraDeep Deep Learning Chip Product and Services

### 2.12.4 TeraDeep Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.12.5 TeraDeep Recent Developments/Updates

## 2.13 Wave Computing

### 2.13.1 Wave Computing Details

### 2.13.2 Wave Computing Major Business

- 2.13.3 Wave Computing Deep Learning Chip Product and Services
- 2.13.4 Wave Computing Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.13.5 Wave Computing Recent Developments/Updates
- 2.14 BrainChip
  - 2.14.1 BrainChip Details
  - 2.14.2 BrainChip Major Business
  - 2.14.3 BrainChip Deep Learning Chip Product and Services
  - 2.14.4 BrainChip Deep Learning Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.14.5 BrainChip Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: DEEP LEARNING CHIP BY MANUFACTURER**

- 3.1 Global Deep Learning Chip Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Deep Learning Chip Revenue by Manufacturer (2019-2024)
- 3.3 Global Deep Learning Chip Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Deep Learning Chip by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Deep Learning Chip Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Deep Learning Chip Manufacturer Market Share in 2023
- 3.5 Deep Learning Chip Market: Overall Company Footprint Analysis
  - 3.5.1 Deep Learning Chip Market: Region Footprint
  - 3.5.2 Deep Learning Chip Market: Company Product Type Footprint
  - 3.5.3 Deep Learning Chip Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Deep Learning Chip Market Size by Region
  - 4.1.1 Global Deep Learning Chip Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Deep Learning Chip Consumption Value by Region (2019-2030)
  - 4.1.3 Global Deep Learning Chip Average Price by Region (2019-2030)
- 4.2 North America Deep Learning Chip Consumption Value (2019-2030)
- 4.3 Europe Deep Learning Chip Consumption Value (2019-2030)
- 4.4 Asia-Pacific Deep Learning Chip Consumption Value (2019-2030)
- 4.5 South America Deep Learning Chip Consumption Value (2019-2030)

#### 4.6 Middle East and Africa Deep Learning Chip Consumption Value (2019-2030)

### **5 MARKET SEGMENT BY TYPE**

#### 5.1 Global Deep Learning Chip Sales Quantity by Type (2019-2030)

#### 5.2 Global Deep Learning Chip Consumption Value by Type (2019-2030)

#### 5.3 Global Deep Learning Chip Average Price by Type (2019-2030)

### **6 MARKET SEGMENT BY APPLICATION**

#### 6.1 Global Deep Learning Chip Sales Quantity by Application (2019-2030)

#### 6.2 Global Deep Learning Chip Consumption Value by Application (2019-2030)

#### 6.3 Global Deep Learning Chip Average Price by Application (2019-2030)

### **7 NORTH AMERICA**

#### 7.1 North America Deep Learning Chip Sales Quantity by Type (2019-2030)

#### 7.2 North America Deep Learning Chip Sales Quantity by Application (2019-2030)

#### 7.3 North America Deep Learning Chip Market Size by Country

##### 7.3.1 North America Deep Learning Chip Sales Quantity by Country (2019-2030)

##### 7.3.2 North America Deep Learning Chip Consumption Value by Country (2019-2030)

##### 7.3.3 United States Market Size and Forecast (2019-2030)

##### 7.3.4 Canada Market Size and Forecast (2019-2030)

##### 7.3.5 Mexico Market Size and Forecast (2019-2030)

### **8 EUROPE**

#### 8.1 Europe Deep Learning Chip Sales Quantity by Type (2019-2030)

#### 8.2 Europe Deep Learning Chip Sales Quantity by Application (2019-2030)

#### 8.3 Europe Deep Learning Chip Market Size by Country

##### 8.3.1 Europe Deep Learning Chip Sales Quantity by Country (2019-2030)

##### 8.3.2 Europe Deep Learning Chip Consumption Value by Country (2019-2030)

##### 8.3.3 Germany Market Size and Forecast (2019-2030)

##### 8.3.4 France Market Size and Forecast (2019-2030)

##### 8.3.5 United Kingdom Market Size and Forecast (2019-2030)

##### 8.3.6 Russia Market Size and Forecast (2019-2030)

##### 8.3.7 Italy Market Size and Forecast (2019-2030)

### **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Deep Learning Chip Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Deep Learning Chip Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Deep Learning Chip Market Size by Region
  - 9.3.1 Asia-Pacific Deep Learning Chip Sales Quantity by Region (2019-2030)
  - 9.3.2 Asia-Pacific Deep Learning Chip Consumption Value by Region (2019-2030)
  - 9.3.3 China Market Size and Forecast (2019-2030)
  - 9.3.4 Japan Market Size and Forecast (2019-2030)
  - 9.3.5 Korea Market Size and Forecast (2019-2030)
  - 9.3.6 India Market Size and Forecast (2019-2030)
  - 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
  - 9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

- 10.1 South America Deep Learning Chip Sales Quantity by Type (2019-2030)
- 10.2 South America Deep Learning Chip Sales Quantity by Application (2019-2030)
- 10.3 South America Deep Learning Chip Market Size by Country
  - 10.3.1 South America Deep Learning Chip Sales Quantity by Country (2019-2030)
  - 10.3.2 South America Deep Learning Chip Consumption Value by Country (2019-2030)
  - 10.3.3 Brazil Market Size and Forecast (2019-2030)
  - 10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Deep Learning Chip Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Deep Learning Chip Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Deep Learning Chip Market Size by Country
  - 11.3.1 Middle East & Africa Deep Learning Chip Sales Quantity by Country (2019-2030)
  - 11.3.2 Middle East & Africa Deep Learning Chip Consumption Value by Country (2019-2030)
  - 11.3.3 Turkey Market Size and Forecast (2019-2030)
  - 11.3.4 Egypt Market Size and Forecast (2019-2030)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
  - 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Deep Learning Chip Market Drivers
- 12.2 Deep Learning Chip Market Restraints
- 12.3 Deep Learning Chip Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Deep Learning Chip and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Deep Learning Chip
- 13.3 Deep Learning Chip Production Process
- 13.4 Deep Learning Chip Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Deep Learning Chip Typical Distributors
- 14.3 Deep Learning Chip Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Deep Learning Chip Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Deep Learning Chip Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. NVIDIA Basic Information, Manufacturing Base and Competitors

Table 4. NVIDIA Major Business

Table 5. NVIDIA Deep Learning Chip Product and Services

Table 6. NVIDIA Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. NVIDIA Recent Developments/Updates

Table 8. Intel Basic Information, Manufacturing Base and Competitors

Table 9. Intel Major Business

Table 10. Intel Deep Learning Chip Product and Services

Table 11. Intel Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Intel Recent Developments/Updates

Table 13. IBM Basic Information, Manufacturing Base and Competitors

Table 14. IBM Major Business

Table 15. IBM Deep Learning Chip Product and Services

Table 16. IBM Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. IBM Recent Developments/Updates

Table 18. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 19. Qualcomm Major Business

Table 20. Qualcomm Deep Learning Chip Product and Services

Table 21. Qualcomm Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Qualcomm Recent Developments/Updates

Table 23. CEVA Basic Information, Manufacturing Base and Competitors

Table 24. CEVA Major Business

Table 25. CEVA Deep Learning Chip Product and Services

Table 26. CEVA Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. CEVA Recent Developments/Updates

Table 28. KnuEdge Basic Information, Manufacturing Base and Competitors



Table 29. KnuEdge Major Business

Table 30. KnuEdge Deep Learning Chip Product and Services

Table 31. KnuEdge Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. KnuEdge Recent Developments/Updates

Table 33. AMD Basic Information, Manufacturing Base and Competitors

Table 34. AMD Major Business

Table 35. AMD Deep Learning Chip Product and Services

Table 36. AMD Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. AMD Recent Developments/Updates

Table 38. Xilinx Basic Information, Manufacturing Base and Competitors

Table 39. Xilinx Major Business

Table 40. Xilinx Deep Learning Chip Product and Services

Table 41. Xilinx Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Xilinx Recent Developments/Updates

Table 43. ARM Basic Information, Manufacturing Base and Competitors

Table 44. ARM Major Business

Table 45. ARM Deep Learning Chip Product and Services

Table 46. ARM Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. ARM Recent Developments/Updates

Table 48. Google Basic Information, Manufacturing Base and Competitors

Table 49. Google Major Business

Table 50. Google Deep Learning Chip Product and Services

Table 51. Google Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. Google Recent Developments/Updates

Table 53. Graphcore Basic Information, Manufacturing Base and Competitors

Table 54. Graphcore Major Business

Table 55. Graphcore Deep Learning Chip Product and Services

Table 56. Graphcore Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Graphcore Recent Developments/Updates

Table 58. TeraDeep Basic Information, Manufacturing Base and Competitors

Table 59. TeraDeep Major Business

Table 60. TeraDeep Deep Learning Chip Product and Services

Table 61. TeraDeep Deep Learning Chip Sales Quantity (K Pcs), Average Price

(USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. TeraDeep Recent Developments/Updates

Table 63. Wave Computing Basic Information, Manufacturing Base and Competitors

Table 64. Wave Computing Major Business

Table 65. Wave Computing Deep Learning Chip Product and Services

Table 66. Wave Computing Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Wave Computing Recent Developments/Updates

Table 68. BrainChip Basic Information, Manufacturing Base and Competitors

Table 69. BrainChip Major Business

Table 70. BrainChip Deep Learning Chip Product and Services

Table 71. BrainChip Deep Learning Chip Sales Quantity (K Pcs), Average Price (USD/Pc), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. BrainChip Recent Developments/Updates

Table 73. Global Deep Learning Chip Sales Quantity by Manufacturer (2019-2024) & (K Pcs)

Table 74. Global Deep Learning Chip Revenue by Manufacturer (2019-2024) & (USD Million)

Table 75. Global Deep Learning Chip Average Price by Manufacturer (2019-2024) & (USD/Pc)

Table 76. Market Position of Manufacturers in Deep Learning Chip, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 77. Head Office and Deep Learning Chip Production Site of Key Manufacturer

Table 78. Deep Learning Chip Market: Company Product Type Footprint

Table 79. Deep Learning Chip Market: Company Product Application Footprint

Table 80. Deep Learning Chip New Market Entrants and Barriers to Market Entry

Table 81. Deep Learning Chip Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Deep Learning Chip Sales Quantity by Region (2019-2024) & (K Pcs)

Table 83. Global Deep Learning Chip Sales Quantity by Region (2025-2030) & (K Pcs)

Table 84. Global Deep Learning Chip Consumption Value by Region (2019-2024) & (USD Million)

Table 85. Global Deep Learning Chip Consumption Value by Region (2025-2030) & (USD Million)

Table 86. Global Deep Learning Chip Average Price by Region (2019-2024) & (USD/Pc)

Table 87. Global Deep Learning Chip Average Price by Region (2025-2030) & (USD/Pc)

Table 88. Global Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 89. Global Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)



Table 90. Global Deep Learning Chip Consumption Value by Type (2019-2024) & (USD Million)

Table 91. Global Deep Learning Chip Consumption Value by Type (2025-2030) & (USD Million)

Table 92. Global Deep Learning Chip Average Price by Type (2019-2024) & (USD/Pc)

Table 93. Global Deep Learning Chip Average Price by Type (2025-2030) & (USD/Pc)

Table 94. Global Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 95. Global Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 96. Global Deep Learning Chip Consumption Value by Application (2019-2024) & (USD Million)

Table 97. Global Deep Learning Chip Consumption Value by Application (2025-2030) & (USD Million)

Table 98. Global Deep Learning Chip Average Price by Application (2019-2024) & (USD/Pc)

Table 99. Global Deep Learning Chip Average Price by Application (2025-2030) & (USD/Pc)

Table 100. North America Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 101. North America Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 102. North America Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 103. North America Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 104. North America Deep Learning Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 105. North America Deep Learning Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 106. North America Deep Learning Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 107. North America Deep Learning Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 108. Europe Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 109. Europe Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 110. Europe Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 111. Europe Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Pcs)

Table 112. Europe Deep Learning Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 113. Europe Deep Learning Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 114. Europe Deep Learning Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 115. Europe Deep Learning Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 116. Asia-Pacific Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 117. Asia-Pacific Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 118. Asia-Pacific Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 119. Asia-Pacific Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 120. Asia-Pacific Deep Learning Chip Sales Quantity by Region (2019-2024) & (K Pcs)

Table 121. Asia-Pacific Deep Learning Chip Sales Quantity by Region (2025-2030) & (K Pcs)

Table 122. Asia-Pacific Deep Learning Chip Consumption Value by Region (2019-2024) & (USD Million)

Table 123. Asia-Pacific Deep Learning Chip Consumption Value by Region (2025-2030) & (USD Million)

Table 124. South America Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 125. South America Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 126. South America Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 127. South America Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 128. South America Deep Learning Chip Sales Quantity by Country (2019-2024) & (K Pcs)

Table 129. South America Deep Learning Chip Sales Quantity by Country (2025-2030) & (K Pcs)

Table 130. South America Deep Learning Chip Consumption Value by Country (2019-2024) & (USD Million)

Table 131. South America Deep Learning Chip Consumption Value by Country (2025-2030) & (USD Million)

Table 132. Middle East & Africa Deep Learning Chip Sales Quantity by Type (2019-2024) & (K Pcs)

Table 133. Middle East & Africa Deep Learning Chip Sales Quantity by Type (2025-2030) & (K Pcs)

Table 134. Middle East & Africa Deep Learning Chip Sales Quantity by Application (2019-2024) & (K Pcs)

Table 135. Middle East & Africa Deep Learning Chip Sales Quantity by Application (2025-2030) & (K Pcs)

Table 136. Middle East & Africa Deep Learning Chip Sales Quantity by Region (2019-2024) & (K Pcs)

Table 137. Middle East & Africa Deep Learning Chip Sales Quantity by Region (2025-2030) & (K Pcs)

Table 138. Middle East & Africa Deep Learning Chip Consumption Value by Region (2019-2024) & (USD Million)

Table 139. Middle East & Africa Deep Learning Chip Consumption Value by Region (2025-2030) & (USD Million)

Table 140. Deep Learning Chip Raw Material

Table 141. Key Manufacturers of Deep Learning Chip Raw Materials

Table 142. Deep Learning Chip Typical Distributors

Table 143. Deep Learning Chip Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Deep Learning Chip Picture

Figure 2. Global Deep Learning Chip Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Deep Learning Chip Consumption Value Market Share by Type in 2023

Figure 4. Graphics Processing Units (GPUs) Examples

Figure 5. Central Processing Units (CPUs) Examples

Figure 6. Application Specific Integrated Circuits (ASICs) Examples

Figure 7. Field Programmable Gate Arrays (FPGAs) Examples

Figure 8. Others Examples

Figure 9. Global Deep Learning Chip Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 10. Global Deep Learning Chip Consumption Value Market Share by Application in 2023

Figure 11. Consumer Electronics Examples

Figure 12. Aerospace, Military & Defense Examples

Figure 13. Automotive Examples

Figure 14. Industrial Examples

Figure 15. Medical Examples

Figure 16. Others Examples

Figure 17. Global Deep Learning Chip Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 18. Global Deep Learning Chip Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 19. Global Deep Learning Chip Sales Quantity (2019-2030) & (K Pcs)

Figure 20. Global Deep Learning Chip Average Price (2019-2030) & (USD/Pc)

Figure 21. Global Deep Learning Chip Sales Quantity Market Share by Manufacturer in 2023

Figure 22. Global Deep Learning Chip Consumption Value Market Share by Manufacturer in 2023

Figure 23. Producer Shipments of Deep Learning Chip by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 24. Top 3 Deep Learning Chip Manufacturer (Consumption Value) Market Share in 2023

Figure 25. Top 6 Deep Learning Chip Manufacturer (Consumption Value) Market Share in 2023

Figure 26. Global Deep Learning Chip Sales Quantity Market Share by Region (2019-2030)

Figure 27. Global Deep Learning Chip Consumption Value Market Share by Region (2019-2030)

Figure 28. North America Deep Learning Chip Consumption Value (2019-2030) & (USD Million)

Figure 29. Europe Deep Learning Chip Consumption Value (2019-2030) & (USD Million)

Figure 30. Asia-Pacific Deep Learning Chip Consumption Value (2019-2030) & (USD Million)

Figure 31. South America Deep Learning Chip Consumption Value (2019-2030) & (USD Million)

Figure 32. Middle East & Africa Deep Learning Chip Consumption Value (2019-2030) & (USD Million)

Figure 33. Global Deep Learning Chip Sales Quantity Market Share by Type (2019-2030)

Figure 34. Global Deep Learning Chip Consumption Value Market Share by Type (2019-2030)

Figure 35. Global Deep Learning Chip Average Price by Type (2019-2030) & (USD/Pc)

Figure 36. Global Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 37. Global Deep Learning Chip Consumption Value Market Share by Application (2019-2030)

Figure 38. Global Deep Learning Chip Average Price by Application (2019-2030) & (USD/Pc)

Figure 39. North America Deep Learning Chip Sales Quantity Market Share by Type (2019-2030)

Figure 40. North America Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 41. North America Deep Learning Chip Sales Quantity Market Share by Country (2019-2030)

Figure 42. North America Deep Learning Chip Consumption Value Market Share by Country (2019-2030)

Figure 43. United States Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. Canada Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. Mexico Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Europe Deep Learning Chip Sales Quantity Market Share by Type (2019-2030)

Figure 47. Europe Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 48. Europe Deep Learning Chip Sales Quantity Market Share by Country (2019-2030)

Figure 49. Europe Deep Learning Chip Consumption Value Market Share by Country (2019-2030)

Figure 50. Germany Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. France Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. United Kingdom Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Russia Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Italy Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. Asia-Pacific Deep Learning Chip Sales Quantity Market Share by Type (2019-2030)

Figure 56. Asia-Pacific Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 57. Asia-Pacific Deep Learning Chip Sales Quantity Market Share by Region (2019-2030)

Figure 58. Asia-Pacific Deep Learning Chip Consumption Value Market Share by Region (2019-2030)

Figure 59. China Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Japan Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Korea Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. India Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Southeast Asia Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Australia Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. South America Deep Learning Chip Sales Quantity Market Share by Type



(2019-2030)

Figure 66. South America Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 67. South America Deep Learning Chip Sales Quantity Market Share by Country (2019-2030)

Figure 68. South America Deep Learning Chip Consumption Value Market Share by Country (2019-2030)

Figure 69. Brazil Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Argentina Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Middle East & Africa Deep Learning Chip Sales Quantity Market Share by Type (2019-2030)

Figure 72. Middle East & Africa Deep Learning Chip Sales Quantity Market Share by Application (2019-2030)

Figure 73. Middle East & Africa Deep Learning Chip Sales Quantity Market Share by Region (2019-2030)

Figure 74. Middle East & Africa Deep Learning Chip Consumption Value Market Share by Region (2019-2030)

Figure 75. Turkey Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Egypt Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 77. Saudi Arabia Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 78. South Africa Deep Learning Chip Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 79. Deep Learning Chip Market Drivers

Figure 80. Deep Learning Chip Market Restraints

Figure 81. Deep Learning Chip Market Trends

Figure 82. Porters Five Forces Analysis

Figure 83. Manufacturing Cost Structure Analysis of Deep Learning Chip in 2023

Figure 84. Manufacturing Process Analysis of Deep Learning Chip

Figure 85. Deep Learning Chip Industrial Chain

Figure 86. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 87. Direct Channel Pros & Cons

Figure 88. Indirect Channel Pros & Cons

Figure 89. Methodology

Figure 90. Research Process and Data Source

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