

Global Neuromorphic Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Neuromorphic Chip market size is expected to reach \$ 2170 million by 2032, rising at a market growth of 27.8% CAGR during the forecast period (2026-2032).

Neuromorphic Chip is a cutting-edge semiconductor component inspired by the structure and working mechanism of the human brain's nervous system, designed to break through the bottlenecks of traditional von Neumann architecture. It simulates neurons and synapses through technologies such as pulse neural networks (SNN) and in-memory computing, adopting an event-driven and distributed parallel processing mode to realize low-power adaptive information processing. With core characteristics of low energy consumption, real-time response and synaptic plasticity, it integrates computing and storage functions to avoid high energy consumption caused by data movement, and can efficiently complete tasks such as perception, recognition and learning in complex scenarios.

Driven by the increasing demand for low-power real-time computing in edge intelligence, autonomous driving and medical devices, the market demand for neuromorphic chips is growing steadily, with rigid demand from edge IoT sensors, intelligent robots and wearable devices, and incremental demand from aerospace, industrial prediction and maintenance, and brain-computer interface fields. The global competition in technological innovation and national strategic layout further accelerates the industrialization process of neuromorphic chips. Business opportunities lie in the R&D of high-precision products integrated with memristor materials, the improvement of open tool chains and ecological construction to reduce application thresholds, the customization of solutions for vertical scenarios such as autonomous driving perception and medical implantable devices, and the breakthrough of core process bottlenecks to promote large-scale commercialization.

This report studies the global Neuromorphic Chip demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Neuromorphic Chip, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Neuromorphic Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Neuromorphic Chip total market, 2021-2032, (USD Million)

Global Neuromorphic Chip total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Neuromorphic Chip total market, key domestic companies, and share, (USD Million)

Global Neuromorphic Chip revenue by player, revenue and market share 2021-2026, (USD Million)

Global Neuromorphic Chip total market by Architectural Design, CAGR, 2021-2032, (USD Million)

Global Neuromorphic Chip total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Neuromorphic Chip market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel, IBM, nepes, GrAI Matter Labs, GyrFalcon, SynSense, BrainChip, Innatera, SpiNNcloud Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Neuromorphic Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Architectural Design, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Neuromorphic Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Neuromorphic Chip Market, Segmentation by Architectural Design:

Pulse Neural Network (SNN) Neuromorphic Chip

In-Memory Computing Neuromorphic Chip

Hybrid Neural Network Neuromorphic Chip

Global Neuromorphic Chip Market, Segmentation by Core Material:

Silicon-Based Neuromorphic Chip

Memristor-Based Neuromorphic Chip

Carbon Nanotube Neuromorphic Chip

Global Neuromorphic Chip Market, Segmentation by Processing Mode:

Event-Driven Neuromorphic Chip

Parallel Processing Neuromorphic Chip

Adaptive Learning Neuromorphic Chip

Global Neuromorphic Chip Market, Segmentation by Application:

Intelligent Robot

Implantable Medical Device

Autonomous Sensing Device

Others

Companies Profiled:

Intel

IBM

nepes

GrAI Matter Labs

GyrFalcon

SynSense

BrainChip

Innatera

SpiNNcloud Systems

Key Questions Answered

1. How big is the global Neuromorphic Chip market?
2. What is the demand of the global Neuromorphic Chip market?
3. What is the year over year growth of the global Neuromorphic Chip market?
4. What is the total value of the global Neuromorphic Chip market?
5. Who are the Major Players in the global Neuromorphic Chip market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Neuromorphic Chip Introduction
- 1.2 World Neuromorphic Chip Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Neuromorphic Chip Total Market by Region (by Headquarter Location)
 - 1.3.1 World Neuromorphic Chip Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.3 China Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.4 Europe Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.5 Japan Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Neuromorphic Chip Revenue (2021-2032)
 - 1.3.8 India Based Company Neuromorphic Chip Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Neuromorphic Chip Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Neuromorphic Chip Consumption Value (2021-2032)
- 2.2 World Neuromorphic Chip Consumption Value by Region
 - 2.2.1 World Neuromorphic Chip Consumption Value by Region (2021-2026)
 - 2.2.2 World Neuromorphic Chip Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Neuromorphic Chip Consumption Value (2021-2032)
- 2.4 China Neuromorphic Chip Consumption Value (2021-2032)
- 2.5 Europe Neuromorphic Chip Consumption Value (2021-2032)
- 2.6 Japan Neuromorphic Chip Consumption Value (2021-2032)
- 2.7 South Korea Neuromorphic Chip Consumption Value (2021-2032)
- 2.8 ASEAN Neuromorphic Chip Consumption Value (2021-2032)
- 2.9 India Neuromorphic Chip Consumption Value (2021-2032)

3 WORLD NEUROMORPHIC CHIP COMPANIES COMPETITIVE ANALYSIS

- 3.1 World Neuromorphic Chip Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)

- 3.2.1 Global Neuromorphic Chip Industry Rank of Major Players
- 3.2.2 Global Concentration Ratios (CR4) for Neuromorphic Chip in 2025
- 3.2.3 Global Concentration Ratios (CR8) for Neuromorphic Chip in 2025
- 3.3 Neuromorphic Chip Company Evaluation Quadrant
- 3.4 Neuromorphic Chip Market: Overall Company Footprint Analysis
 - 3.4.1 Neuromorphic Chip Market: Region Footprint
 - 3.4.2 Neuromorphic Chip Market: Company Product Type Footprint
 - 3.4.3 Neuromorphic Chip Market: Company Product Application Footprint
- 3.5 Competitive Environment
 - 3.5.1 Historical Structure of the Industry
 - 3.5.2 Barriers of Market Entry
 - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: Neuromorphic Chip Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: Neuromorphic Chip Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: Neuromorphic Chip Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Neuromorphic Chip Consumption Value Comparison
 - 4.2.1 United States VS China: Neuromorphic Chip Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Neuromorphic Chip Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Neuromorphic Chip Companies and Market Share, 2021-2026
 - 4.3.1 United States Based Neuromorphic Chip Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies Neuromorphic Chip Revenue, (2021-2026)
- 4.4 China Based Companies Neuromorphic Chip Revenue and Market Share, 2021-2026
 - 4.4.1 China Based Neuromorphic Chip Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies Neuromorphic Chip Revenue, (2021-2026)
- 4.5 Rest of World Based Neuromorphic Chip Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Neuromorphic Chip Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Neuromorphic Chip Revenue (2021-2026)

5 MARKET ANALYSIS BY ARCHITECTURAL DESIGN

5.1 World Neuromorphic Chip Market Size Overview by Architectural Design: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Architectural Design

5.2.1 Pulse Neural Network (SNN) Neuromorphic Chip

5.2.2 In-Memory Computing Neuromorphic Chip

5.2.3 Hybrid Neural Network Neuromorphic Chip

5.3 Market Segment by Architectural Design

5.3.1 World Neuromorphic Chip Market Size by Architectural Design (2021-2026)

5.3.2 World Neuromorphic Chip Market Size by Architectural Design (2027-2032)

5.3.3 World Neuromorphic Chip Market Size Market Share by Architectural Design (2027-2032)

6 MARKET ANALYSIS BY CORE MATERIAL

6.1 World Neuromorphic Chip Market Size Overview by Core Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Core Material

6.2.1 Silicon-Based Neuromorphic Chip

6.2.2 Memristor-Based Neuromorphic Chip

6.2.3 Carbon Nanotube Neuromorphic Chip

6.3 Market Segment by Core Material

6.3.1 World Neuromorphic Chip Market Size by Core Material (2021-2026)

6.3.2 World Neuromorphic Chip Market Size by Core Material (2027-2032)

6.3.3 World Neuromorphic Chip Market Size Market Share by Core Material (2027-2032)

7 MARKET ANALYSIS BY PROCESSING MODE

7.1 World Neuromorphic Chip Market Size Overview by Processing Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Processing Mode

7.2.1 Event-Driven Neuromorphic Chip

7.2.2 Parallel Processing Neuromorphic Chip

- 7.2.3 Adaptive Learning Neuromorphic Chip
- 7.3 Market Segment by Processing Mode
 - 7.3.1 World Neuromorphic Chip Market Size by Processing Mode (2021-2026)
 - 7.3.2 World Neuromorphic Chip Market Size by Processing Mode (2027-2032)
 - 7.3.3 World Neuromorphic Chip Market Size Market Share by Processing Mode (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Neuromorphic Chip Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Intelligent Robot
 - 8.2.2 Implantable Medical Device
 - 8.2.3 Autonomous Sensing Device
 - 8.2.4 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Neuromorphic Chip Market Size by Application (2021-2026)
 - 8.3.2 World Neuromorphic Chip Market Size by Application (2027-2032)
 - 8.3.3 World Neuromorphic Chip Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Intel
 - 9.1.1 Intel Details
 - 9.1.2 Intel Major Business
 - 9.1.3 Intel Neuromorphic Chip Product and Services
 - 9.1.4 Intel Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Intel Recent Developments/Updates
 - 9.1.6 Intel Competitive Strengths & Weaknesses
- 9.2 IBM
 - 9.2.1 IBM Details
 - 9.2.2 IBM Major Business
 - 9.2.3 IBM Neuromorphic Chip Product and Services
 - 9.2.4 IBM Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.2.5 IBM Recent Developments/Updates
 - 9.2.6 IBM Competitive Strengths & Weaknesses
- 9.3 nepes
 - 9.3.1 nepes Details

- 9.3.2 nepes Major Business
- 9.3.3 nepes Neuromorphic Chip Product and Services
- 9.3.4 nepes Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
- 9.3.5 nepes Recent Developments/Updates
- 9.3.6 nepes Competitive Strengths & Weaknesses
- 9.4 GrAI Matter Labs
 - 9.4.1 GrAI Matter Labs Details
 - 9.4.2 GrAI Matter Labs Major Business
 - 9.4.3 GrAI Matter Labs Neuromorphic Chip Product and Services
 - 9.4.4 GrAI Matter Labs Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.4.5 GrAI Matter Labs Recent Developments/Updates
 - 9.4.6 GrAI Matter Labs Competitive Strengths & Weaknesses
- 9.5 GyrFalcon
 - 9.5.1 GyrFalcon Details
 - 9.5.2 GyrFalcon Major Business
 - 9.5.3 GyrFalcon Neuromorphic Chip Product and Services
 - 9.5.4 GyrFalcon Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.5.5 GyrFalcon Recent Developments/Updates
 - 9.5.6 GyrFalcon Competitive Strengths & Weaknesses
- 9.6 SynSense
 - 9.6.1 SynSense Details
 - 9.6.2 SynSense Major Business
 - 9.6.3 SynSense Neuromorphic Chip Product and Services
 - 9.6.4 SynSense Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.6.5 SynSense Recent Developments/Updates
 - 9.6.6 SynSense Competitive Strengths & Weaknesses
- 9.7 BrainChip
 - 9.7.1 BrainChip Details
 - 9.7.2 BrainChip Major Business
 - 9.7.3 BrainChip Neuromorphic Chip Product and Services
 - 9.7.4 BrainChip Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 BrainChip Recent Developments/Updates
 - 9.7.6 BrainChip Competitive Strengths & Weaknesses
- 9.8 Innatera

- 9.8.1 Innatera Details
- 9.8.2 Innatera Major Business
- 9.8.3 Innatera Neuromorphic Chip Product and Services
- 9.8.4 Innatera Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
- 9.8.5 Innatera Recent Developments/Updates
- 9.8.6 Innatera Competitive Strengths & Weaknesses
- 9.9 SpiNNcloud Systems
 - 9.9.1 SpiNNcloud Systems Details
 - 9.9.2 SpiNNcloud Systems Major Business
 - 9.9.3 SpiNNcloud Systems Neuromorphic Chip Product and Services
 - 9.9.4 SpiNNcloud Systems Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 SpiNNcloud Systems Recent Developments/Updates
 - 9.9.6 SpiNNcloud Systems Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Neuromorphic Chip Industry Chain
- 10.2 Neuromorphic Chip Upstream Analysis
- 10.3 Neuromorphic Chip Midstream Analysis
- 10.4 Neuromorphic Chip Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Neuromorphic Chip Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Neuromorphic Chip Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Neuromorphic Chip Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Neuromorphic Chip Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Neuromorphic Chip Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Neuromorphic Chip Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Neuromorphic Chip Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Neuromorphic Chip Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Neuromorphic Chip Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Neuromorphic Chip Players in 2025

Table 12. World Neuromorphic Chip Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Neuromorphic Chip Company Evaluation Quadrant

Table 14. Head Office of Key Neuromorphic Chip Players

Table 15. Neuromorphic Chip Market: Company Product Type Footprint

Table 16. Neuromorphic Chip Market: Company Product Application Footprint

Table 17. Neuromorphic Chip Mergers & Acquisitions Activity

Table 18. United States VS China Neuromorphic Chip Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Neuromorphic Chip Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Neuromorphic Chip Companies, Headquarters (States, Country)

Table 21. United States Based Companies Neuromorphic Chip Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Neuromorphic Chip Revenue Market Share

(2021-2026)

Table 23. China Based Neuromorphic Chip Companies, Headquarters (Province, Country)

Table 24. China Based Companies Neuromorphic Chip Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Neuromorphic Chip Revenue Market Share (2021-2026)

Table 26. Rest of World Based Neuromorphic Chip Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Neuromorphic Chip Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Neuromorphic Chip Revenue Market Share (2021-2026)

Table 29. World Neuromorphic Chip Market Size by Architectural Design, (USD Million), 2021 & 2025 & 2032

Table 30. World Neuromorphic Chip Market Size Value by Architectural Design (2021-2026) & (USD Million)

Table 31. World Neuromorphic Chip Market Size by Architectural Design (2027-2032) & (USD Million)

Table 32. World Neuromorphic Chip Market Size by Core Material, (USD Million), 2021 & 2025 & 2032

Table 33. World Neuromorphic Chip Market Size Value by Core Material (2021-2026) & (USD Million)

Table 34. World Neuromorphic Chip Market Size by Core Material (2027-2032) & (USD Million)

Table 35. World Neuromorphic Chip Market Size by Processing Mode, (USD Million), 2021 & 2025 & 2032

Table 36. World Neuromorphic Chip Market Size Value by Processing Mode (2021-2026) & (USD Million)

Table 37. World Neuromorphic Chip Market Size by Processing Mode (2027-2032) & (USD Million)

Table 38. World Neuromorphic Chip Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Neuromorphic Chip Market Size by Application (2021-2026) & (USD Million)

Table 40. World Neuromorphic Chip Market Size by Application (2027-2032) & (USD Million)

Table 41. Intel Basic Information, Manufacturing Base and Competitors

Table 42. Intel Major Business

- Table 43. Intel Neuromorphic Chip Product and Services
- Table 44. Intel Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 45. Intel Recent Developments/Updates
- Table 46. Intel Competitive Strengths & Weaknesses
- Table 47. IBM Basic Information, Manufacturing Base and Competitors
- Table 48. IBM Major Business
- Table 49. IBM Neuromorphic Chip Product and Services
- Table 50. IBM Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 51. IBM Recent Developments/Updates
- Table 52. IBM Competitive Strengths & Weaknesses
- Table 53. nepes Basic Information, Manufacturing Base and Competitors
- Table 54. nepes Major Business
- Table 55. nepes Neuromorphic Chip Product and Services
- Table 56. nepes Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 57. nepes Recent Developments/Updates
- Table 58. nepes Competitive Strengths & Weaknesses
- Table 59. GrAI Matter Labs Basic Information, Manufacturing Base and Competitors
- Table 60. GrAI Matter Labs Major Business
- Table 61. GrAI Matter Labs Neuromorphic Chip Product and Services
- Table 62. GrAI Matter Labs Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 63. GrAI Matter Labs Recent Developments/Updates
- Table 64. GrAI Matter Labs Competitive Strengths & Weaknesses
- Table 65. GyrFalcon Basic Information, Manufacturing Base and Competitors
- Table 66. GyrFalcon Major Business
- Table 67. GyrFalcon Neuromorphic Chip Product and Services
- Table 68. GyrFalcon Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. GyrFalcon Recent Developments/Updates
- Table 70. GyrFalcon Competitive Strengths & Weaknesses
- Table 71. SynSense Basic Information, Manufacturing Base and Competitors
- Table 72. SynSense Major Business
- Table 73. SynSense Neuromorphic Chip Product and Services
- Table 74. SynSense Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. SynSense Recent Developments/Updates

- Table 76. SynSense Competitive Strengths & Weaknesses
- Table 77. BrainChip Basic Information, Manufacturing Base and Competitors
- Table 78. BrainChip Major Business
- Table 79. BrainChip Neuromorphic Chip Product and Services
- Table 80. BrainChip Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. BrainChip Recent Developments/Updates
- Table 82. BrainChip Competitive Strengths & Weaknesses
- Table 83. Innatera Basic Information, Manufacturing Base and Competitors
- Table 84. Innatera Major Business
- Table 85. Innatera Neuromorphic Chip Product and Services
- Table 86. Innatera Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Innatera Recent Developments/Updates
- Table 88. Innatera Competitive Strengths & Weaknesses
- Table 89. SpiNNcloud Systems Basic Information, Manufacturing Base and Competitors
- Table 90. SpiNNcloud Systems Major Business
- Table 91. SpiNNcloud Systems Neuromorphic Chip Product and Services
- Table 92. SpiNNcloud Systems Neuromorphic Chip Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. SpiNNcloud Systems Recent Developments/Updates
- Table 94. SpiNNcloud Systems Competitive Strengths & Weaknesses
- Table 95. Global Key Players of Neuromorphic Chip Upstream (Raw Materials)
- Table 96. Global Neuromorphic Chip Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Neuromorphic Chip Picture

Figure 2. World Neuromorphic Chip Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Neuromorphic Chip Total Revenue (2021-2032) & (USD Million)

Figure 4. World Neuromorphic Chip Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Neuromorphic Chip Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Neuromorphic Chip Revenue (2021-2032) & (USD Million)

Figure 13. Neuromorphic Chip Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 16. World Neuromorphic Chip Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 18. China Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 23. India Neuromorphic Chip Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Neuromorphic Chip by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Neuromorphic Chip Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Neuromorphic Chip Markets in 2025

Figure 27. United States VS China: Neuromorphic Chip Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Neuromorphic Chip Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Neuromorphic Chip Market Size by Architectural Design, (USD Million), 2021 & 2025 & 2032

Figure 30. World Neuromorphic Chip Market Size Market Share by Architectural Design in 2025

Figure 31. Pulse Neural Network (SNN) Neuromorphic Chip

Figure 32. In-Memory Computing Neuromorphic Chip

Figure 33. Hybrid Neural Network Neuromorphic Chip

Figure 34. World Neuromorphic Chip Market Size Market Share by Architectural Design (2021-2032)

Figure 35. World Neuromorphic Chip Market Size by Core Material, (USD Million), 2021 & 2025 & 2032

Figure 36. World Neuromorphic Chip Market Size Market Share by Core Material in 2025

Figure 37. Silicon-Based Neuromorphic Chip

Figure 38. Memristor-Based Neuromorphic Chip

Figure 39. Carbon Nanotube Neuromorphic Chip

Figure 40. World Neuromorphic Chip Market Size Market Share by Core Material (2021-2032)

Figure 41. World Neuromorphic Chip Market Size by Processing Mode, (USD Million), 2021 & 2025 & 2032

Figure 42. World Neuromorphic Chip Market Size Market Share by Processing Mode in 2025

Figure 43. Event-Driven Neuromorphic Chip

Figure 44. Parallel Processing Neuromorphic Chip

Figure 45. Adaptive Learning Neuromorphic Chip

Figure 46. World Neuromorphic Chip Market Size Market Share by Processing Mode (2021-2032)

Figure 47. World Neuromorphic Chip Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Neuromorphic Chip Market Size Market Share by Application in 2025

Figure 49. Intelligent Robot

Figure 50. Implantable Medical Device

Figure 51. Autonomous Sensing Device

Figure 52. Others

Figure 53. World Neuromorphic Chip Market Size Market Share by Application
(2021-2032)

Figure 54. Neuromorphic Chip Industrial Chain

Figure 55. Methodology

Figure 56. Research Process and Data Source

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