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Global SNN Neuromorphic Chip Market Growth (Status and Outlook) 2026-2032

https://marketpublishers.com/r/GCFCC01906CBEN.html
Date: October 2026
Pages: 112
Price: US$ 3,660.00 (Single User License)
ID: GCFCC01906CBEN

Abstracts

The global SNN Neuromorphic Chip market size is predicted to grow from US$ 34.24 million in 2025 to US$ 1106 million in 2032; it is expected to grow at a CAGR of 65.6% from 2026 to 2032.

An SNN neuromorphic chip is a specialized integrated circuit designed based on the ??Spiking Neural Network (SNN) model??. It completely subverts the traditional von Neumann architecture by ??emulating the spiking, transmission, and learning mechanisms of biological neurons and synapses??, adopting an ??event-driven, asynchronous parallel, in-memory computing?? approach. It efficiently processes ??spatiotemporal information?? with extremely low power consumption, serving as the core hardware platform for realizing ??brain-like intelligent computing??.

The SNN neuromorphic chip market is poised for rapid growth, its development prospects deeply tied to the core trends of global AI shifting to the edge and towards a green and low-carbon future. Future growth is driven by its inherent advantages in processing event-driven sensor information and its disruptive ultra-low power consumption in the milliwatt range. This makes it an irreplaceable solution for scenarios requiring critical real-time response in autonomous driving, demanding endurance in IoT devices, and precise biosignal analysis in brain-computer interfaces. From a global regional perspective, the North American market, with its leading global tech giants, cutting-edge academic research institutions, and vibrant venture capital ecosystem, continues to serve as a technology hub and pioneer of high-end applications. The European market, leveraging its strong industrial base and strategic investments in green technology, is focused on applying neuromorphic computing to smart manufacturing, sustainable cities, and scientific research infrastructure, demonstrating a deep R&D foundation. The Asia-Pacific market, particularly China, exhibits the strongest

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growth momentum and industrialization potential. Its vast manufacturing base, vibrant tech startup ecosystem, and national strategic investment in cutting-edge technologies are driving it to become a core region for the fastest implementation of innovative applications and cost optimization. The essence of global competition is a competition of ecosystems and standards. Leading forces are committed to promoting the coordinated evolution of hardware, algorithms and development tools to seize the commanding heights of the next-generation artificial intelligence computing paradigm.

Report Scope

LPI (LP Information)' newest research report, the “SNN Neuromorphic Chip Industry Forecast” looks at past sales and reviews total world SNN Neuromorphic Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected SNN Neuromorphic Chip sales for 2026 through 2032. With SNN Neuromorphic Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world SNN Neuromorphic Chip industry.

This Insight Report provides a comprehensive analysis of the global SNN Neuromorphic Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on SNN Neuromorphic Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global SNN Neuromorphic Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SNN Neuromorphic Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SNN Neuromorphic Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of SNN Neuromorphic Chip market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

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Online learning chip

Offline inference chip

Segmentation by Application:

Edge AI

Intelligent Robotics

High-Performance Computing

Smart Wearables and Health Monitoring

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Intel Corporation

lBM Corporation

Eta Compute

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nepes

GrAI Matter Labs

GyrFalcon

aiCTX

BrainChip Holdings

Qualcomm Technologies

Applied Brain Research

Lynxi Tech

SynSense

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global SNN Neuromorphic Chip Market Size 2026-2032
  2.1.2 SNN Neuromorphic Chip Market Size CAGR by Region
2.2 SNN Neuromorphic Chip Segment by Type
  2.2.1 Online learning chip
  2.2.2 Offline inference chip
  2.2.3 SNN Neuromorphic Chip Market Size by Type
    2.2.3.1 Global SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
    2.2.3.2 Global SNN Neuromorphic Chip Market Size Growth Rate by Type (2026-2032)
2.3 SNN Neuromorphic Chip Segment by Application
  2.3.1 Edge AI
  2.3.2 Intelligent Robotics
  2.3.3 High-Performance Computing
  2.3.4 Smart Wearables and Health Monitoring
  2.3.5 SNN Neuromorphic Chip Market Size by Application (2026-2032)
    2.3.5.1 Global SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
    2.3.5.2 Global SNN Neuromorphic Chip Market Size Growth Rate by Application (2026-2032)

3 SNN NEUROMORPHIC CHIP KEY PLAYERS

3.1 Date of Key Players Enter into SNN Neuromorphic Chip

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3.2 Key Players SNN Neuromorphic Chip Product Offered
3.3 Key Players SNN Neuromorphic Chip Funding/Investment Analysis
3.4 Funding/Investment
3.4.1 Funding/Investment by Regions
3.4.2 Funding/Investment by End-Industry
3.5 Key Players SNN Neuromorphic Chip Valuation & Market Capitalization
3.6 Key Players Mergers & Acquisitions, Expansion Plans
3.7 Market Ranking
3.8 New Product/Technology Launches
3.9 Partnerships, Agreements, and Collaborations
3.10 Mergers and Acquisitions

4 SNN NEUROMORPHIC CHIP BY REGIONS

4.1 SNN Neuromorphic Chip Market Size by Regions (2026-2032)
4.2 United States SNN Neuromorphic Chip Market Size Growth (2026-2032)
4.3 China SNN Neuromorphic Chip Market Size Growth (2026-2032)
4.4 Europe SNN Neuromorphic Chip Market Size Growth (2026-2032)
4.5 Rest of World SNN Neuromorphic Chip Market Size Growth (2026-2032)

5 UNITED STATES

5.1 United States SNN Neuromorphic Chip Market Size by Type (2026-2032)
5.2 United States SNN Neuromorphic Chip Market Size by Application (2026-2032)

6 EUROPE

6.1 Europe SNN Neuromorphic Chip Market Size by Type (2026-2032)
6.2 Europe SNN Neuromorphic Chip Market Size by Application (2026-2032)

7 CHINA

7.1 China SNN Neuromorphic Chip Market Size by Type (2026-2032)
7.2 China SNN Neuromorphic Chip Market Size by Application (2026-2032)

8 REST OF WORLD

8.1 Rest of World SNN Neuromorphic Chip Market Size by Type (2026-2032)
8.2 Rest of World SNN Neuromorphic Chip Market Size by Application (2026-2032)

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8.3 Japan
8.4 South Korea
8.5 Southeast Asia

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 KEY INVESTORS IN SNN NEUROMORPHIC CHIP

10.1 Company A
  10.1.1 Company A Company Details
  10.1.2 Company Description
  10.1.3 Companies Invested by Company A
  10.1.4 Company A Key Development and Market Layout
10.2 Company B
  10.2.1 Company B Company Details
  10.2.2 Company Description
  10.2.3 Companies Invested by Company B
  10.2.4 Company B Key Development and Market Layout
10.3 Company C
  10.3.1 Company C Company Details
  10.3.2 Company Description
  10.3.3 Companies Invested by Company C
  10.3.4 Company C Key Development and Market Layout
10.4 Company D
10.5 ……

11 KEY PLAYERS ANALYSIS

11.1 Intel Corporation
  11.1.1 Intel Corporation Company Details
  11.1.2 Intel Corporation SNN Neuromorphic Chip Product Offered
  11.1.3 Intel Corporation SNN Neuromorphic Chip Market Size (2025 VS 2031)
  11.1.4 Intel Corporation Main Business Overview
  11.1.5 Intel Corporation News
11.2 lBM Corporation

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11.2.1 lBM Corporation Company Details
11.2.2 lBM Corporation SNN Neuromorphic Chip Product Offered
11.2.3 lBM Corporation SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.2.4 lBM Corporation Main Business Overview
11.2.5 lBM Corporation News
11.3 Eta Compute
11.3.1 Eta Compute Company Details
11.3.2 Eta Compute SNN Neuromorphic Chip Product Offered
11.3.3 Eta Compute SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.3.4 Eta Compute Main Business Overview
11.3.5 Eta Compute News
11.4 nepes
11.4.1 nepes Company Details
11.4.2 nepes SNN Neuromorphic Chip Product Offered
11.4.3 nepes SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.4.4 nepes Main Business Overview
11.4.5 nepes News
11.5 GrAI Matter Labs
11.5.1 GrAI Matter Labs Company Details
11.5.2 GrAI Matter Labs SNN Neuromorphic Chip Product Offered
11.5.3 GrAI Matter Labs SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.5.4 GrAI Matter Labs Main Business Overview
11.5.5 GrAI Matter Labs News
11.6 GyrFalcon
11.6.1 GyrFalcon Company Details
11.6.2 GyrFalcon SNN Neuromorphic Chip Product Offered
11.6.3 GyrFalcon SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.6.4 GyrFalcon Main Business Overview
11.6.5 GyrFalcon News
11.7 aiCTX
11.7.1 aiCTX Company Details
11.7.2 aiCTX SNN Neuromorphic Chip Product Offered
11.7.3 aiCTX SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.7.4 aiCTX Main Business Overview
11.7.5 aiCTX News
11.8 BrainChip Holdings
11.8.1 BrainChip Holdings Company Details
11.8.2 BrainChip Holdings SNN Neuromorphic Chip Product Offered
11.8.3 BrainChip Holdings SNN Neuromorphic Chip Market Size (2025 VS 2031)

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11.8.4 BrainChip Holdings Main Business Overview
11.8.5 BrainChip Holdings News
11.9 Qualcomm Technologies
11.9.1 Qualcomm Technologies Company Details
11.9.2 Qualcomm Technologies SNN Neuromorphic Chip Product Offered
11.9.3 Qualcomm Technologies SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.9.4 Qualcomm Technologies Main Business Overview
11.9.5 Qualcomm Technologies News
11.10 Applied Brain Research
11.10.1 Applied Brain Research Company Details
11.10.2 Applied Brain Research SNN Neuromorphic Chip Product Offered
11.10.3 Applied Brain Research SNN Neuromorphic Chip Market Size (2025 VS 2031)
11.10.4 Applied Brain Research Main Business Overview
11.10.5 Applied Brain Research News
11.11 Lynxi Tech
11.12 SynSense

12 RESEARCH FINDINGS AND CONCLUSION

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List Of Tables

LIST OF TABLES

Table 1. SNN Neuromorphic Chip Market Size CAGR by Region (2026-2032) ($ millions)
Table 2. Major Players of Online learning chip
Table 3. Major Players of Offline inference chip
Table 4. Global Market Size by Type (2026-2032) ($ millions)
Table 5. Global SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Table 6. Global SNN Neuromorphic Chip Market Size by Application (2026-2032) ($ millions)
Table 7. Global SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
Table 8. Date of Global Key Players Enter into SNN Neuromorphic Chip Market
Table 9. Global Key Players SNN Neuromorphic Chip Product Offered
Table 10. Key Players SNN Neuromorphic Chip Funding/Investment (Million USD)
Table 11. Funding/Investment by Regions
Table 12. Funding/Investment by End-Industry
Table 13. Key Players SNN Neuromorphic Chip Valuation & Market Capitalization (Million USD)
Table 14. Key Players Mergers & Acquisitions, Expansion Plans
Table 15. SNN Neuromorphic Chip New Product/Technology Launches
Table 16. SNN Neuromorphic Chip Industry Partnerships, Agreements, and Collaborations
Table 17. SNN Neuromorphic Chip Industry Mergers and Acquisitions
Table 18. Global SNN Neuromorphic Chip Market Size by Regions 2026-2032 ($ millions)
Table 19. Global SNN Neuromorphic Chip Market Size Market Share by Regions 2026-2032
Table 20. United States SNN Neuromorphic Chip Market Size by Type (2026-2032) ($ millions)
Table 21. United States SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Table 22. United States SNN Neuromorphic Chip Market Size by Application (2026-2032) ($ millions)
Table 23. United States SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)

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Table 24. Europe SNN Neuromorphic Chip Market Size by Type (2026-2032) ($ millions)
Table 25. Europe SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Table 26. Europe SNN Neuromorphic Chip Market Size by Application (2026-2032) ($ millions)
Table 27. Europe SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
Table 28. China SNN Neuromorphic Chip Market Size by Type (2026-2032) ($ millions)
Table 29. China SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Table 30. China SNN Neuromorphic Chip Market Size by Application (2026-2032) ($ millions)
Table 31. China SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
Table 32. Rest of World SNN Neuromorphic Chip Market Size by Type (2026-2032) ($ millions)
Table 33. Rest of World SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Table 34. Rest of World SNN Neuromorphic Chip Market Size by Application (2026-2032) ($ millions)
Table 35. Rest of World SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
Table 36. Key Market Drivers & Growth Opportunities of SNN Neuromorphic Chip
Table 37. Key Market Challenges & Risks of SNN Neuromorphic Chip
Table 38. Key Industry Trends of SNN Neuromorphic Chip
Table 39. Company A Company Details
Table 40. Companies Invested by Company A
Table 41. Company A Key Development and Market Layout
Table 42. Company B Company Details
Table 43. Companies Invested by Company B
Table 44. Company B Key Development and Market Layout
Table 45. Company C Company Details
Table 46. Companies Invested by Company C
Table 47. Company C Key Development and Market Layout
Table 48. Intel Corporation Basic Information, Head Office, Major Market Areas and Its Competitors
Table 49. Intel Corporation SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 50. lBM Corporation Basic Information, Head Office, Major Market Areas and Its

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Competitors
Table 51. lBM Corporation SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 52. Eta Compute Basic Information, Head Office, Major Market Areas and Its Competitors
Table 53. Eta Compute SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 54. nepes Basic Information, Head Office, Major Market Areas and Its Competitors
Table 55. nepes SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 56. GrAl Matter Labs Basic Information, Head Office, Major Market Areas and Its Competitors
Table 57. GrAl Matter Labs SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 58. GyrFalcon Basic Information, Head Office, Major Market Areas and Its Competitors
Table 59. GyrFalcon SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 60. aiCTX Basic Information, Head Office, Major Market Areas and Its Competitors
Table 61. aiCTX SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 62. BrainChip Holdings Basic Information, Head Office, Major Market Areas and Its Competitors
Table 63. BrainChip Holdings SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 64. Qualcomm Technologies Basic Information, Head Office, Major Market Areas and Its Competitors
Table 65. Qualcomm Technologies SNN Neuromorphic Chip Market Size (2025 VS 2031)
Table 66. Applied Brain Research Basic Information, Head Office, Major Market Areas and Its Competitors
Table 67. Applied Brain Research SNN Neuromorphic Chip Market Size (2025 VS 2031)

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of SNN Neuromorphic Chip
Figure 2. SNN Neuromorphic Chip Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global SNN Neuromorphic Chip Market Size Growth Rate 2026-2032 ($ millions)
Figure 7. SNN Neuromorphic Chip Market Size by Region (2025 & 2032) ($ millions)
Figure 8. Global SNN Neuromorphic Chip Market Size Market Share by Type (2026-2032)
Figure 9. Global Online learning chip Market Size Growth Rate
Figure 10. Global Offline inference chip Market Size Growth Rate
Figure 11. SNN Neuromorphic Chip in Edge AI
Figure 12. Global SNN Neuromorphic Chip Market: Edge AI (2026-2032) ($ millions)
Figure 13. SNN Neuromorphic Chip in Intelligent Robotics
Figure 14. Global SNN Neuromorphic Chip Market: Intelligent Robotics (2026-2032) ($ millions)
Figure 15. SNN Neuromorphic Chip in High-Performance Computing
Figure 16. Global SNN Neuromorphic Chip Market: High-Performance Computing (2026-2032) ($ millions)
Figure 17. SNN Neuromorphic Chip in Smart Wearables and Health Monitoring
Figure 18. Global SNN Neuromorphic Chip Market: Smart Wearables and Health Monitoring (2026-2032) ($ millions)
Figure 19. Global SNN Neuromorphic Chip Market Size Market Share by Application (2026-2032)
Figure 20. Global SNN Neuromorphic Chip Market Size in Edge AI Growth Rate
Figure 21. Global SNN Neuromorphic Chip Market Size in Intelligent Robotics Growth Rate
Figure 22. Funding/Investment
Figure 23. Global SNN Neuromorphic Chip Market Size Market Share by Regions 2026-2032
Figure 24. United States SNN Neuromorphic Chip Market Size 2026-2032 ($ millions)
Figure 25. China SNN Neuromorphic Chip Market Size 2026-2032 ($ millions)
Figure 26. Europe SNN Neuromorphic Chip Market Size 2026-2032 ($ millions)
Figure 27. Rest of World SNN Neuromorphic Chip Market Size 2026-2032 ($ millions)

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Figure 28. United States SNN Neuromorphic Chip Consumption Market Share by Type in 2030
Figure 29. United States SNN Neuromorphic Chip Market Size Market Share by Application in 2030
Figure 30. Europe SNN Neuromorphic Chip Consumption Market Share by Type in 2030
Figure 31. Europe SNN Neuromorphic Chip Market Size Market Share by Application in 2030
Figure 32. China SNN Neuromorphic Chip Consumption Market Share by Type in 2030
Figure 33. China SNN Neuromorphic Chip Market Size Market Share by Application in 2030
Figure 34. Rest of World SNN Neuromorphic Chip Consumption Market Share by Type in 2030
Figure 35. Rest of World SNN Neuromorphic Chip Market Size Market Share by Application in 2030

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