

Global Neuromorphic AI Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Neuromorphic AI Semiconductor market size was valued at US\$ 31.4 million in 2024 and is forecast to a readjusted size of USD 406 million by 2031 with a CAGR of 44.7% during review period.

Neuromorphic computing is a branch of artificial intelligence (AI) that simulates the functionality of the human neuron. This report mainly studies Neuromorphic Chip market. A neuromorphic chip is an analog data processor inspired by the biological brain.

The core manufacturers of Neuromorphic AI Semiconductor in the world include Intel Corporation, IBM Corporation and Nepes. The top three companies hold about 76 percent of the market. North America is the world's largest market for Neuromorphic AI Semiconductor with a market share of about 44%, followed by Europe and Asia Pacific with a market share of 36% and 20%, respectively. In terms of product type, Data Mining is the largest segment with approximately 93% market share. In terms of application, Neuromorphic Computer is the largest downstream segment, accounting for about 68% of the market.

This report is a detailed and comprehensive analysis for global Neuromorphic AI Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Neuromorphic AI Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Neuromorphic AI Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Neuromorphic AI Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Neuromorphic AI Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Neuromorphic AI Semiconductor
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Neuromorphic AI Semiconductor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel Corporation, IBM Corporation, Nepes, GrAI Matter Labs, BrainChip Holdings, SynSense AG, etc.

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

Market Segmentation

Neuromorphic AI Semiconductor market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Data Mining

Image Recognition & Signal Recognition

Market segment by Application

Neuromorphic Computer

Others

Major players covered

Intel Corporation

IBM Corporation

Nepes

GrAI Matter Labs

BrainChip Holdings

SynSense AG

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 Neuromorphic AI Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Neuromorphic AI Semiconductor, with price, sales quantity, revenue, and global market share of Neuromorphic AI Semiconductor from 2020 to 2025.

Chapter 3, the Neuromorphic AI Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Neuromorphic AI Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Neuromorphic AI Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Neuromorphic AI Semiconductor.

Chapter 14 and 15, to describe Neuromorphic AI Semiconductor sales channel, distributors, customers, research findings and conclusion.

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