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Global Compute-in-Memory AI Accelerator Chips Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Compute-in-Memory AI Accelerator Chips market size is predicted to grow from US$ 226 million in 2025 to US$ 48777 million in 2032; it is expected to grow at a CAGR of 116.5% from 2026 to 2032.

Compute-in-Memory (CIM) AI Accelerator Chips are specialized hardware accelerators that execute AI computations directly within or adjacent to memory arrays, enabling operations such as multiply–accumulate (MAC) to be performed where data is stored. By drastically reducing data movement between memory and processing units, CIM accelerator chips lower power consumption, reduce latency, and alleviate memory bandwidth bottlenecks associated with conventional von Neumann architectures. These chips are particularly effective for AI inference workloads dominated by matrix and vector operations, and are commonly implemented using SRAM, DRAM, or emerging non-volatile memories (e.g., ReRAM, MRAM), making them a key technology path for energy-efficient edge AI and next-generation AI computing systems.

United States market for Compute-in-Memory AI Accelerator Chips is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Compute-in-Memory AI Accelerator Chips is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Compute-in-Memory AI Accelerator Chips is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Compute-in-Memory AI Accelerator Chips players cover Samsung, SK Hynix, Syntiant, D-Matrix, Mythic, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Compute-in-Memory AI Accelerator Chips 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 Compute-in-Memory AI Accelerator Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Compute-in-Memory AI Accelerator Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compute-in-Memory AI Accelerator Chips 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 Compute-in-Memory AI Accelerator Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Compute-in-Memory AI Accelerator Chips market by product type, application, key players and key regions and countries.

Segmentation by Type:

Near-in-memory Computation (PNM)

In-memory Processing (PIM)

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In-memory Computation (CIM)

Segmentation by Storage Media:

SRAM-based CIM

DRAM-based PIM

NVM-based CIM

Segmentation by Application:

Small Computing Power

Large Computing Power

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- Southeast Asia
- 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.

- Samsung
- SK Hynix

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Syntiant

D-Matrix

Mythic

Graphcore

EnCharge AI

Axelera AI

Hangzhou Zhicun (Witmem) Technology

Suzhou Yizhu Intelligent Technology

Shenzhen Reexen Technology

Beijing Houmo Technology

AistarTek

Beijing Pingxin Technology

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