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Global Compute-In-Memory Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Compute-In-Memory Chip market size is expected to reach $ 42322 million by 2032, rising at a market growth of 109.7% CAGR during the forecast period (2026-2032).
A Compute-In-Memory (CIM) chip is an integrated circuit architecture that performs computation directly within or adjacent to memory arrays, enabling operations such as multiply?accumulate to be executed where data is stored rather than transferring data back and forth between separate memory and processing units; by minimizing data movement, CIM chips significantly reduce energy consumption and latency while improving parallelism, making them particularly well suited for data-intensive workloads like artificial intelligence inference, neural network acceleration, and edge computing, although challenges remain in precision control, process variability, and software ecosystem maturity for large-scale deployment.
The Compute-In-Memory (CIM) chip market is currently at an early stage of commercialization, with adoption driven mainly by edge AI, low-power inference, and memory-bandwidth-constrained workloads. Market activity is led by startups, research spin-offs, and collaborations with foundries and memory manufacturers, while products are typically delivered as prototypes, small-volume chips, or application-specific solutions rather than standardized platforms. Although conventional GPUs and ASICs still dominate large-scale AI computing, CIM architectures are gaining attention for their ability to significantly reduce data movement, power consumption, and latency, and the market is expected to see initial volume deployment in selected vertical applications between 2026 and 2030 as device reliability, software ecosystems, and design tools mature.
This report studies the global Compute-In-Memory Chip demand, key companies, and key regions.
This report is a detailed and comprehensive analysis of the world market for Compute-

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In-Memory 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 Compute-In-Memory Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Compute-In-Memory Chip total market, 2021-2032, (USD Million)

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

U.S. VS China: Compute-In-Memory Chip total market, key domestic companies, and share, (USD Million)

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

Global Compute-In-Memory Chip total market by Type, CAGR, 2021-2032, (USD Million)

Global Compute-In-Memory Chip total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Compute-In-Memory 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 Syntiant, Hangzhou Zhicun (Witmem) Technology, Myhtic, Shenzhen Reexen Technology, Beijing Pingxin Technology, Graphcore, Axelera AI, AistarTek, Suzhou Yizhu Intelligent Technology, Beijing Houmo Technology, 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 Compute-In-Memory Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, 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 Compute-In-Memory Chip Market, By Region:

United States

China

Europe

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Japan

South Korea

ASEAN

India

Rest of World

Global Compute-In-Memory Chip Market, Segmentation by Type:

DRAM

SRAM

Others

Global Compute-In-Memory Chip Market, Segmentation by Chip Type:

Near-Memory Computing (PNM) Chip

In-Memory Processing (PIM) Chip

In-Memory Computing (CIM) Chip

Global Compute-In-Memory Chip Market, Segmentation by Storage Media:

Volatile Memory

Non-volatile Memory

Global Compute-In-Memory Chip Market, Segmentation by Application:

Small Computing Power

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Large Computing Power

Companies Profiled:

Syntiant

Hangzhou Zhicun (Witmem) Technology

Myhtic

Shenzhen Reexen Technology

Beijing Pingxin Technology

Graphcore

Axelera AI

AistarTek

Suzhou Yizhu Intelligent Technology

Beijing Houmo Technology

Samsung

SK Hynix

D-Matrix

EnCharge AI

Key Questions Answered

1. How big is the global Compute-In-Memory Chip market?
2. What is the demand of the global Compute-In-Memory Chip market?
3. What is the year over year growth of the global Compute-In-Memory Chip market?

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4. What is the total value of the global Compute-In-Memory Chip market?
5. Who are the Major Players in the global Compute-In-Memory Chip market?
6. What are the growth factors driving the market demand?

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