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Global Processing in-memory AI Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Processing in-memory AI Chips 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).
Processing-in-Memory AI chips are computing architectures that integrate computation capabilities directly within or very close to memory arrays, enabling arithmetic operations?such as multiply-accumulate? to be performed where data is stored, thereby minimizing data movement between memory and processors; by alleviating the von Neumann bottleneck, PIM chips can significantly improve energy efficiency, bandwidth utilization, and latency, making them particularly suitable for AI workloads dominated by matrix and vector operations, while challenges remain in precision control, manufacturing variability, programmability, and ecosystem maturity as the technology transitions from research prototypes toward specialized commercial deployments.
The processing-in-memory (PIM) AI chip market is at an early commercialization stage, with a small but rapidly growing addressable market driven primarily by energy-efficient AI inference, edge computing, and memory-bandwidth-constrained workloads. Market adoption is currently led by specialized startups, research spin-offs, and pilot programs involving memory and semiconductor manufacturers, with deployments mainly in proof-of-concept systems and limited-volume, application-specific designs rather than mass production. While conventional GPUs and ASIC accelerators continue to dominate mainstream AI computing, PIM architectures are gaining attention for their ability to significantly reduce data-movement energy and latency, positioning them for gradual penetration into selected verticals as process integration, software ecosystems, and reliability mature over the next several years.
This report studies the global Processing in-memory AI Chips production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Processing

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in-memory AI Chips 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 Processing in-memory AI Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Processing in-memory AI Chips total production and demand, 2021-2032, (Million Units)

Global Processing in-memory AI Chips total production value, 2021-2032, (USD Million)

Global Processing in-memory AI Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Processing in-memory AI Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Processing in-memory AI Chips domestic production, consumption, key domestic manufacturers and share

Global Processing in-memory AI Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Processing in-memory AI Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Processing in-memory AI Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Processing in-memory AI Chips market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Syntiant, Hangzhou Zhicun (Witmem) Technology, Shenzhen Reexen Technology, Myhtic, 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 Processing in-memory AI Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million Units) and average price (US$/Unit) by manufacturer, 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 Processing in-memory AI Chips Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Processing in-memory AI Chips Market, Segmentation by Type:

DRAM-PIM

SRAM-PIM

Others

Global Processing in-memory AI Chips Market, Segmentation by Chips Type:

Near-Memory Computing (PNM) Chip

In-Memory Processing (PIM) Chip

In-Memory Computing (CIM) Chip

Global Processing in-memory AI Chips Market, Segmentation by Storage Media:

Volatile Memory

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Non-volatile Memory

Global Processing in-memory AI Chips Market, Segmentation by Application:

Small Computing Power

Large Computing Power

Companies Profiled:

Syntiant

Hangzhou Zhicun (Witmem) Technology

Shenzhen Reexen Technology

Myhtic

Beijing Pingxin Technology

Graphcore

Axelera AI

AistarTek

Suzhou Yizhu Intelligent Technology

Beijing Houmo Technology

Samsung

SK Hynix

D-Matrix

EnCharge AI

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Key Questions Answered:

1. How big is the global Processing in-memory AI Chips market?
2. What is the demand of the global Processing in-memory AI Chips market?
3. What is the year over year growth of the global Processing in-memory AI Chips market?
4. What is the production and production value of the global Processing in-memory AI Chips market?
5. Who are the key producers in the global Processing in-memory AI Chips market?
6. What are the growth factors driving the market demand?

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