

Global Computational Storage Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Computational Storage market size is expected to reach \$ 1965 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

Computational storage involves deploying computing capabilities directly onto storage devices or in close proximity to data. This enables tasks such as filtering, compression, encryption, retrieval, and analysis to be performed within solid-state drives (SSDs), storage controllers, or storage nodes. By minimizing data movement between storage and processors, this approach reduces latency, bandwidth consumption, and energy usage, making it suitable for applications in artificial intelligence, big data, databases, and edge computing.

The upstream sector primarily comprises suppliers of NAND flash memory, DRAM, processors, FPGAs, storage controllers, interface chips, firmware, and development tools. Downstream applications span cloud computing centers, internet enterprises, the financial and telecommunications sectors, scientific research, intelligent manufacturing, autonomous driving, medical imaging, and edge computing environments.

The global computational storage market is transitioning from the proof-of-concept stage to large-scale deployment. The continuous growth of data generated by AI training and inference, real-time databases, video analytics, and edge devices is driving enterprises to offload certain computing tasks to the storage layer. Future products will increasingly utilize programmable processors, FPGAs, dedicated accelerators, and architectures that facilitate synergy between storage and computing, while enhancing compatibility with NVMe, CXL, containers, and mainstream cloud platforms. As software ecosystems, programming interfaces, and industry standards mature, the complexity of deploying computational storage is expected to decrease. Market competition will shift

from a focus on raw hardware performance to comprehensive capabilities encompassing hardware, software, algorithms, and application solutions; meanwhile, low power consumption, data security, heterogeneous computing, and open standards will emerge as key areas of development.

This report studies the global Computational Storage demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Computational Storage, 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 Computational Storage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Computational Storage total market, 2021-2032, (USD Million)

Global Computational Storage total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Computational Storage total market, key domestic companies, and share, (USD Million)

Global Computational Storage revenue by player, revenue and market share 2021-2026, (USD Million)

Global Computational Storage total market by Type, CAGR, 2021-2032, (USD Million)

Global Computational Storage total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Computational Storage 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 Samsung Electronics, ScaleFlux, Intel, Marvell Technology, Arm, Phison Electronics, NETINT Technologies, Pliops, Eideticom, Kalray, 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 Computational Storage 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 Computational Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Computational Storage Market, Segmentation by Type:

Fixed Computational Storage Services (FCSS)

Programmable Computational Storage Services (PCSS)

Global Computational Storage Market, Segmentation by Processing Architecture:

FPGA-Based Computational Storage

ASIC-Based Computational Storage

CPU-Based Computational Storage

GPU-Based Computational Storage

DPU-Based Computational Storage

SoC-Based Computational Storage

Global Computational Storage Market, Segmentation by Storage Medium:

NAND Flash-Based Computational Storage

SSD-Based Computational Storage

HDD-Based Computational Storage

Persistent Memory-Based Computational Storage

Hybrid Storage-Based Computational Storage

Global Computational Storage Market, Segmentation by Application:

Data Centers

Smart Security Cameras

Bandwidth-constrained Devices

Other

Companies Profiled:

Samsung Electronics

ScaleFlux

Intel

Marvell Technology

Arm

Phison Electronics

NETINT Technologies

Pliops

Eideticom

Kalray

BittWare

Huawei

DapuStor

Alibaba Cloud

Inspur

Lenovo

Fujitsu

Kioxia

Key Questions Answered

1. How big is the global Computational Storage market?
2. What is the demand of the global Computational Storage market?
3. What is the year over year growth of the global Computational Storage market?
4. What is the total value of the global Computational Storage market?
5. Who are the Major Players in the global Computational Storage market?
6. What are the growth factors driving the market demand?

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