

Computational Storage Market by Offering (Hardware (Processor and SSD), Software), Type (Fixed Computational Storage and Programmable Computational Storage), End-use Industry, and Region - Global Forecast to 2032

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Abstracts

The computational storage market is projected to reach USD 4.30 billion by 2032 from USD 0.93 billion in 2026, at a CAGR of 29.0% during the forecast period.

Computational storage is driven by the growing need to process massive data volumes closer to where they are stored, reducing data movement and latency. The rapid adoption of AI, big data analytics, and high-performance computing is driving demand for faster, more efficient data processing. Rising data center workloads and cloud computing deployments are also accelerating the need for optimized storage architecture. Additionally, advancements in NVMe, SSD controllers, and embedded processors are enabling smarter, more capable storage devices.

“Programmable computational storage segment to witness high growth during the forecast period.”

Programmable computational storage is expected to grow significantly due to its ability to support customizable data processing for diverse workloads, such as AI, analytics, and cybersecurity. Unlike fixed-function devices, programmable solutions allow users to deploy application-specific algorithms directly within storage, improving flexibility and performance. The rising demand for workload optimization in data centers is driving the adoption of reconfigurable architectures such as FPGAs and DPUs. Enterprises are increasingly prioritizing scalable and future-proof storage solutions, further boosting demand for programmability. Additionally, continuous advancements in software

frameworks and development tools are making programmable computational storage more accessible and cost-effective.

“Enterprise storage segment to account for the largest market share during the forecast period.”

Computational storage held the largest market share in 2025 due to its strong adoption across data centers, cloud platforms, and high-performance computing environments. Organizations increasingly deploy computational storage to reduce data movement, improve processing efficiency, and lower overall system latency. The rapid growth of AI, big data analytics, and real-time applications further accelerated demand for intelligent storage solutions. Major technology providers expanded their product portfolios and partnerships, strengthening market penetration. Additionally, rising investments in next-generation storage infrastructure supported the widespread deployment of computational storage systems.

“China accounted for the largest market share in 2025.”

China accounted for the largest share of the Asia Pacific region due to its strong manufacturing base and large-scale investments in advanced computing and data center infrastructure. The country’s rapid adoption of AI, cloud computing, and big data analytics is driving high demand for computational storage solutions. Strong government support for digital transformation and semiconductor development further accelerates market growth. The presence of major technology companies and system integrators enhances local adoption. Additionally, increasing enterprise digitization and smart industry initiatives continue to strengthen China’s regional leadership.

Extensive primary interviews were conducted with key industry experts in the computational storage market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakup of primary participants for the report is shown below:

The breakup of the profile of primary participants in the computational storage market is mentioned below:

By Company Type: Tier 1 - 50%, Tier 2 - 30%, and Tier 3 - 20%

By Designation: C-level - 20%, Director Level - 50%, and Others - 30%

By Region: North America - 30%, Europe - 20%, Asia Pacific - 40%, and RoW - 10%

The report profiles key players in the computational storage market with their respective market ranking analysis. Prominent players profiled in this report are Intel Corporation (US), Advanced Micro Devices, Inc. (US), Samsung Electronics Co., Ltd. (South Korea), NGD Systems (US), ScaleFlux (US), Marvell Technology, Inc. (US), Eideticom (Canada), NETINT Technologies (Canada), Pliops (Israel), and ARM (UK). Apart from this, AIC, Inc. (Taiwan), NVIDIA Corporation (US), Kalray SA (France), Nyriad (US), Phison Electronics Corporation (Taiwan), VIA Technologies, Inc. (Taiwan), NetApp, Inc (US), Achronix Semiconductor Corporation (US), Calypso Systems (US), Lightbits Labs (Israel), MinIO (US), Western Digital Corporation (US), Seagate Technology LLC (US), SK Hynix (South Korea), and KIOXIA Holdings Corporation (Japan).

Research Coverage:

This research report categorizes the computational storage market on the basis of offering, type, end-use industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the computational storage market and forecasts the same till 2032. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the computational storage ecosystem.

Reason to Buy This Report

The report will help market leaders/new entrants in this market by providing information on the closest approximations of revenue for the overall computational storage market and its subsegments. This report will help stakeholders understand the competitive landscape and gain deeper insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of key drivers (rising demand for faster data processing and reduced latency in AI and big data workloads driving adoption of computational storage), restraints (high deployment costs and integration complexity limit widespread

implementation), opportunities (growing investments in cloud, edge computing, and data centers create strong growth potential), and challenges (lack of standardization and skilled expertise makes adoption and scalability difficult) influencing the growth of the computational storage market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the computational storage market.

Market Development: Comprehensive information about lucrative markets – the report analyzes the computational storage market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the computational storage market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Intel Corporation (US), Advanced Micro Devices, Inc. (US), Samsung Electronics Co., Ltd. (South Korea), ScaleFlux (US), and Marvell Technology, Inc. (US, among others in the computational storage market.

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